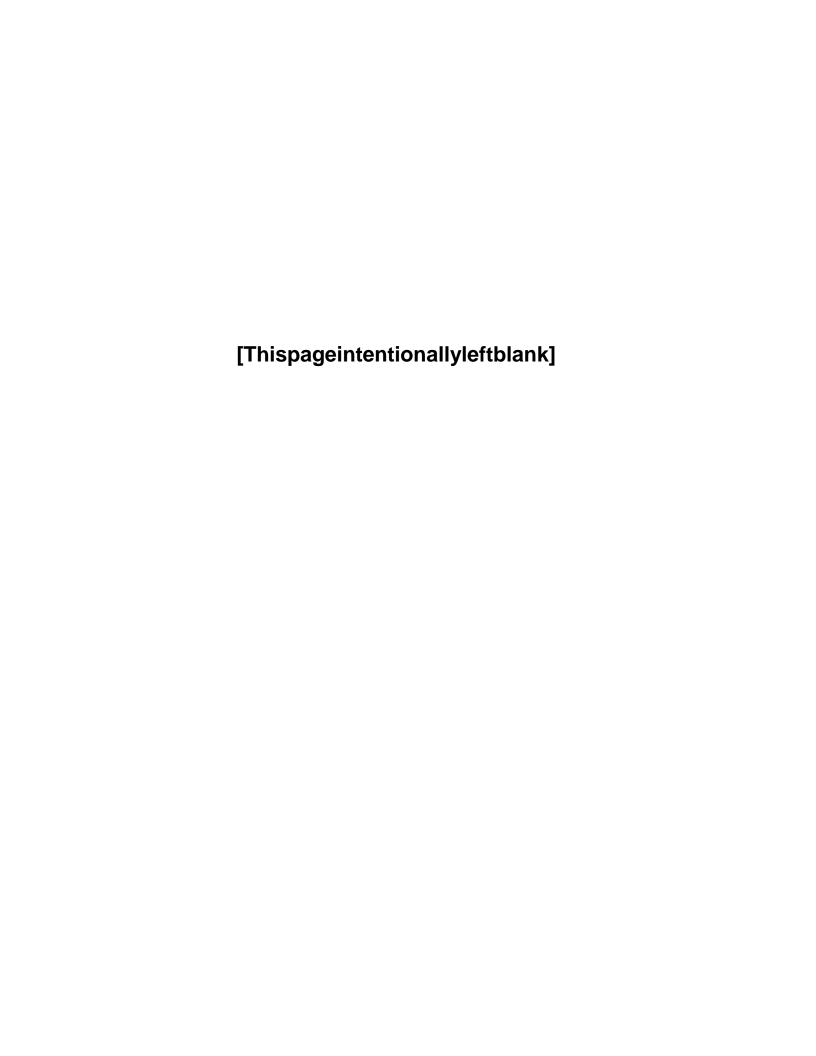
THEPUBLICHEALTHRESPONSE TOBIOLOGICALANDCHEMICALTERRORISM

INTERIMPLANNINGGUIDANCEFOR STATEPUBLICHEALTHOFFICIALS

U.S.DEPARTMENTOFHEALTHANDHUMANSERVICES

CentersforDiseaseControlandPrevention

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The Public Health Response to Biological and Chemical Terrorism: Interim Planning Guidance for State Public Health Officials

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PlanningFlowChartforHealthDepartments

The Public Health Response to Biologica I and Chemical Terrorism: Interim Planning Guidance for State Public Health Officials

ExecutiveSummary

Acrossthecountry, statehealth department officials are considering the capabilities of their department stores pond to a biological or chemical terrorism incident. Traditionally, the responsibilities of the statehealth department shave been disease surveillance and management. Health departments now are defining their roles to respond effectively to an intentional release of biological organism sorhazardous chemical sinto an unsuspecting population.

Infederalfiscalyear1999,theCentersforDiseaseControlandPrevention(CDC) receivedcongressionally -appropriatedfundstoenterintomulti -yearcooperative agreementsaimedatupgradingst ateandlocalhealthdepartmentpreparednessand responsecapabilitiesrelativetobioterrorism.Aportionofthesefundswasusedto facilitatepreparednessandreadinessassessments.GranteesreceivingtheFocus AreaAFundsmustdevelopterrorismresp onseplans.Inreturn,CDCcommittedto developingplanningguidance.ThePublicHealthResponsetoBiologicalandChemical Terrorism:InterimPlanningGuidanceforStatePublicHealthOfficialsfulfillsthat commitment.

ThisPlanningGuidanceisdesig nedtohelpstatepublichealthofficialsdeterminethe rolesoftheirdepartmentsinresponsetobiologicalandchemicalterrorismandto understandtheemergencyresponserolesoflocalhealthdepartmentsandthe emergencymanagementsystem. The Plannin gGuidancealsocanbeusedtohelp statehealthdepartmentscoordinatetheireffortswiththemanyagencies and organizationsatalllevelsofgovernmentthatultimatelywouldrespondtoabiologicalor chemicalterrorismevent.

Responseeffortsdiffer accordingtoeachstate=ssize,population,risks,needs,and capabilities.RatherthanestablishingaAonesizefitsall@model,thisdocument providesgeneralguidancethatcanbetailoredtomeettheneedsofindividual jurisdictions.

Objectives of the Planning Guidance

Manystateandlocalhealthdepartmentslackplansforrespondingtoterrorismevents. Moreover,publichealthactivitiesmaynotbewellintegratedwiththoseofotherstate agenciesthatareresponsibleforrespondingtoemergenci esofalltypes. Toremedy this, the Planning Guidancese ekstoaccomplish the following:

Helphealthdepartmentsintegratetheirterrorismresponseeffortsintotheir

- states=overallemergencypreparednessandresponse frameworks.
- \$ Helpstatesdevelop realisticterrorismresponseplansthatareconsistentwith theirresources,capabilities,andneeds.
- \$ Helpstatesidentifythecapabilitiesnecessarytomeetthekeyelementsofa publichealthpreparednessprogram.
- \$ Helphealthdepartmentsbuildcommun icationlinkswithotherassetsinthe health-carecommunity,e.g.,hospitals,emergencydepartments,acute -care centers,andfirstresponseorganizations, toassesslocalcapacitiesand coordinateresponses.
- \$ Helpstatesassisttheirlocalhealthdepartme ntsinterrorismresponse planningefforts.
- \$ Helpstatesunderstandandaccessfederalassetsavailableduringa biologicalorchemicalterrorismrelease.

Organization

The Planning Guidance has three distinct, yet interrelated components: chapters, annexes, and appendices. These parts build upon each other, ensuring that the resulting terror is mplanintegrates into the state = sexisting Emergency Operations Plan (EOP) and effectively coordinates the roles and responsibilities of all response agencies.

ThefivechaptersofthePlanningGuidancecontainpublichealth -specificprogrammatic guidanceforterrorismresponsepreparedness.Theemergencyresponseactivities outlinedthroughoutthesechaptersshouldbeconsistentregardlessoftheagentthat triggerstheresponse.Therefore,thecorechapterscoverpreparednessandresponse activitieswithoutdesignatingtheagent.

Chapter1presentstheobjectives,organization,anddevelopmentofthePlanning Guidance.Italsopresents *TenEssentialServic esforPublicHealth*,alistof capabilitiesdevelopedbyCDCincollaborationwiththeAssociationofStateand TerritorialHealthOfficialsandtheNationalAssociationofCountyandCityHealth Officials.Developingeffectivecapabilitiesundereachof theseessentialserviceswill layadependablefoundationuponwhichtobuildthekeyelementsofthepublichealth terrorismresponsesystem.

Chapter2outlinesthefive KeyPreparednessElements forTerrorismResponse: HazardAnalysis,EmergencyRespo nsePlanning,HealthSurveillanceand EpidemiologicInvestigation,LaboratoryDiagnosisandCharacterization,and ConsequenceManagement.ThefirsttwoelementsarecoveredinAppendixI. PreparednessplanningtosatisfytherequirementsofElements3th rough5iscovered inChapters3,4,and5,respectively.

Someresponseactivitiesmustbetailoredtotheuniquecharacteristicsoftheagent involved. Considerationsfortheseagent -specificresponseactivities are presented in the annexes. Biologic al-specific information is provided in Annex A, and chemical specific information is contained in Annex B.

Eachannexbrieflyoutlinestheagentsofconcernforplanningpurposesandprovides informationonthemedicalmanagementofcasualties. The ann exesals oprovide agent-specific guidance for surveillance and epidemiology, laboratory analysis, and consequence management that build supon the information contained in Chapters 3, 4, and 5.

AppendixIfocusesonthedevelopmentofabasicEOP.TheE OPshouldformthe foundationforthedevelopmentoftheterrorismresponseplan.Itisimpossibleto includeacomprehensivediscussiononplanninginthisdocument;however,AppendixI containssufficientgeneralguidancetoservebothasanintroductio nforthose unfamiliarwithbasicemergencymanagementplanningconceptsandasarefresherfor seasonedplanners.

AppendixIIncludesbasicinformationregardingtheNationalPharmaceuticalStockpile (NPS)Banationalrepositoryofantibiotics,chemica lantidotes,antitoxins,life -support medications,IVadministrationandairwaymaintenancesupplies,andmedical/surgical items.NPSprogramstaffestablishedguidancefordevelopingstockpile -related StandardOperatingProcedures.Thesensitivenature ofsomeoftheinformation precludeditsinclusioninthisdocument;however,stateandlocalpublichealthplanners mayobtainacopybycontactingtheNPSProgramasfollows:

NationalPharmaceuticalStockpileProgram 4770BufordHighway MailstopF -23 Atlanta,GA30341 -3724 (770)488 -7516

CDCwelcomessuggestionstomakeThePublicHealthResponsetoBiologicaland ChemicalTerrorism:InterimPlanningGuidanceforStatePublicHealthOfficialsmore usefultostateandlocalagencies.Toprovidecommen tsaboutthisdocumentorto receivepublichealthplanningtechnicalassistance,pleasecontactthefollowing:

CentersforDiseaseControlandPrevention EmergencyPreparednessandResponseBranch 4770BufordHighway,MailstopF -38 Atlanta,GA30341 -3724 (770)488 -7100

The Public Health Response to Biological and Chemical Terrorism: Interim Planning Guidance for State Public Health Officials

ACRONYMS

APIC AssociationforProfessionalsinInfectionControlandEpidemiology

ASTHO Association of State and Territorial Health Officials

ATSDR AgencyforToxicSubstancesandDiseaseRegistry

BSL BiosafetyLevel

CDC CentersforDiseaseControlandPrevention

CFR CodeofFederalRegulations

DOJ DepartmentofJustice

EMS EmergencyMedicalServices

EOC EmergencyOperationsCenter

EOP EmergencyOperationsPlan

EPA EnvironmentalProtectionAgency

Epi-X EmergencyPreparednessInformationExchange

FBI FederalBureauofInvestigation

FEMA FederalEmergencyManagementAgency

HAZMAT HazardousMaterials

HHS DepartmentofHealthandHumanServices

ICS IncidentCommandSystem

JIC JointInformationCenter

JIS JointInformationSystem

Acronyms

JTTF JointTerrorismTaskForce

LEPC LocalEmergencyPlanningCommittee

LRN LaboratoryResponseNetwork

MMRS MetropolitanMedica IResponseSystems

NACCHO National Association of County and City Health Officials

NPS NationalPharmaceuticalStockpile

OHS OfficeofHealthandSafety(CDC)

OJP OfficeofJusticePrograms

PCR PolymeraseChainReaction

RRAT RapidResponseandAdvanced TechnologyLaboratory

SARA SuperfundAmendmentsandReauthorizationActof1986

SERC StateEmergencyResponseCommission

SLG StateandLocalGuide

SOP StandardOperatingProcedure

UC UnifiedCommand

VMI VendorManagedInventory

WMD WeaponsofMassDest ruction

Chapter1

OVERVIEW

The Public Health Response to Biological and Chemical Terrorism: Interim Planning GuidanceforStatePublicHealthOfficials(hereafterreferredtoasthePlanning Guidance)outlinesstepsforstrengtheningthecapacityof thepublichealthsystemto respondtoandprotectthenationagainstthedangersofaterrorismincident. Although thePlanningGuidancefocusesonthe biologicalandchemicalterrorismpreparedness effortsofstate -levelhealthdepartmentpersonnel,it canbeusedasaplanningtoolby anyoneintheresponsecommunity, regardless of his or her position within that communityorlevelofgovernment. The publicheal th community at large also can use thisdocumenttoimproveitsterrorismpreparednessandd evelopterrorismresponse plans. ^aThepreparednessprogramoutlinedinthis Planning Guidance, once implemented, should improve the ability of all publicheal thagencies torespondto emergencysituationsarisingfromallsources,notjustterrorism.

ThePlanningGuidancefocusesonthecapabilitiesthatstatehealthdepartmentsare likelytoneedtorespondeffectivelytoaterrorismincident.Despitethepublichealth focusofthisdocument,theterrorismplanultimatelyshouldnotbeagency -specific. Instead,theterrorismplanshouldbeintegrated,outliningtherolesandresponsibilities ofallagenciesthatparticipateinaresponse.Thiscoordinatedterrorismplanshould thenbeannexedtothestate=sall -hazardEmergencyOperationsPlan(EOP).

Background

Theintentionalreleaseofsarin,anorganophosphatenerveagent,intotheTokyo subwaysystemhelpedto focustheUnitedStatesonitsneedtoprepareforwhatwas onceunthinkable.AumShinrikyo,thegroupresponsiblefortheTokyoinci dent, disbursedbotulinumtoxinandanthraxbacteria,andthegroupattemptedtoobtain Ebola(1).

TheWorldTradeCenterandOklahomaCitybombingsconfirmthatterrorismisnotan eventthatoccursonlyonforeignsoil.Terrorismincidentsorthreatsi nvolving

^aPlannersinhealth -carefacilitiescanreferto ABioterrorismReadinessPlan BATemplateforHealthcare Facilities@preparedbytheAssociationforProfessionalsinInfectionControlandEpidemiology(APIC). ThisdocumentisavailableontheAPICWebsiteatURL: www.apic.org.

^bTheFederalEmergencyManagementAgency(FEMA)recommendsthatterrorism -specificresponse protocolsbeannexedtothestate =semergencyplan.Theseterrorismprotocolsarereferredtoasthe Aterrorismplan @throughoutthisdocument.

Salmonella(2)andricin(3)amplydemonstratethattheUnitedStatesisvulnerablenot onlytobombsbuttobiologicalandchemicalthreatsaswell.

Theseandothereventscausedhealthdepartmentsacrossthecountrytoconsidertheir ability torespondtoa terrorismincident.Inadditiontotheirmoretraditional responsibilitiesindiseasesurveillanceandmanagement,healthdepartmentsare definingtheirrolestorespondeffectivelytoanintentionalreleaseofbiological organismsorhaza rdouschemicalsintoanunsuspectingpopulation.

Becausestatesdifferinsize,population,risks,needs,andcapabilities,terrorism preparednessandresponseeffortsinevitablymustdiffer. Thisdocumentdoesnot establishaAone -size-fits-all@model;rather,itaddressesimportantareasof preparednessandresponsethatcanbetailoredtomeettheneedsofindividual jurisdictions. Healthdepartmentofficials should consider the information contained in this guidance, identify the health and medical effects that an explosion or the intentional release or threatened release of a biological organism or hazardous chemical could have on the population, and prepare to address the publiche alth consequences of those effects.

The Centers for Disease Cont roland Prevention (CDC) welcomes suggestions to make this Planning Guidance more useful to state and local agencies. To provide comments about this document or to receive publiche althorous little and in the state of the contact the following:

CentersforDiseaseControlandPrevention EmergencyPreparednessandResponseBranch 4770BufordHighway,MailstopF -38 Atlanta,GA30341 (770)488 -7100(available24hoursperday)

ThetelephonenumberisalsoCDC=s24 -houremergencynumber.Whenan emergencycallisreceived, aCDCemergencycoordinatordirectsthecaller tothe appropriatesubject -matterexpert(s).

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^cWhereastheTo kyosubwayattackkilled12,theApril19,1995,bombingoftheMurrahFederalBuilding inOklahomaCitykilled168.Inaddition,theAugust7,1998,U.S.EmbassybombingsinDaresSalaam, Tanzania,andNairobi,Kenya,killed224. Thus, manyexpertsbeli evethattheuseofconventional weapons(i.e.,explosives)remainsamorecrediblethreatthanthatposedbyotherformsofterrorism. However,possibleramificationsoftheuseofbiologicalorchemicalweaponscompelustopreparefor theirpotentialu seaswell.

Objectives

Manystateandlocalhealthdepartmentslackplansforrespondingtobiologicalor chemicalterrorismevents. Moreover, publichea Ithactivities may not be well integrated with those of other state agencies that are responsible for responding to emergencies of all types. On the basis of these observations, the objectives of this Panning Guidance are as follows:

- \$ Highlightthepivot alroleofthepublichealthsysteminterrorism preparednessandresponse.
- \$ Helphealthdepartmentsintegratetheirterrorismresponseeffortsintotheir states=overallemergencypreparednessandresponse frameworks.
- \$ Helpstatesdeveloprealisticterror ismresponseplansthatareconsistentwith theirresources,capabilities,andneeds.
- \$ Helpstatesidentifythecapabilitiesnecessarytomeetthekeyelementsofa publichealthpreparednessprogram.
- \$ Helphealthdepartmentsbuildcommunicationlinkswith otherassetsinthe health-carecommunity(e.g.,hospitals,emergencydepartments,andacute carecenters)toassesslocalcapacitiesandcoordinateresponses.
- \$ Helpstatesassisttheirlocalhealthdepartmentsinterrorismresponse planningefforts.
- \$ Helpstatesunderstandandaccessfederalassetsavailableduringa biologicalorchemicalterrorismrelease.

Organization

ThePlanningGuidancefocusesonemergencyplanningasthecornerstoneof terrorism preparedness.Forthosenotfamiliarwithemerg encyplanning,genericplanning guidanceisprovidedinAppendixI.Eachchapterinthisdocumentisdevotedtothe planningrequirementsofaparticularpreparednessprogramelement.Thisallows individualdepartmentsresponsibleforeachofthekeyele mentstofocusonissues relevanttotheirplanningefforts,whileallowingtheleadplannertoreviewthoseefforts withinthecontextofthisdocumentasawhole.TheseAtearout@chaptersincludea planningchecklistanddetailedplanningguidance.

Chapter1: Overview

Muchofthematerialcoveredinthechecklistsisspecificinnatureandmore appropriatelycouldsupportStandardOperatingProcedures(SOPs). The states hould include these procedures in the appropriate document, either the planor SOP, consistent with the elevel of detail contained in the state = sexisting EOP.

Thechecklistspresentquestionsthatstatesshouldconsiderduringtheplanningand preparednessprocess. Thequestions are not exhaustive (i.e., states are not constrained from including other sections or provisions not covered in the checklists) normust all items referenced be included in the plan.

Fillingoutthechecklistsisnotnecessary. Their intentistoprompt discussions and aid the planner indesigning and organizing the publichea. Ith terrorism response plan.

AAno@responsetoaquestionshouldprompthealthdepartmentstoconsiderwhether theitemisnecessarytothestate=sterrorismpreparedness.Ifitisanecessary component,actionsshouldbetakentofilltheidentified needasrapidlyaspossible.If thecomponentisnotnecessaryorcanbefilledatalaterdate,planningshould continuewithoutit.

ThecorechaptersofthisPlanningGuidancecoverpreparednessandresponse activitieswithoutdelineatingtheagentbec ausetheseactivitiesshouldbeconsistent regardlessoftheagentthattriggerstheresponse.Insomeinstances,theresponse activitiesmayvarydependingontheinvolvedagent.Forthoseinstances,biological andchemical -specificinformationiscont ainedinAnnexesAandB,respectively.

ThePlanningGuidanceaddressespreparednessissuesrelatedspecificallytobiological andchemicalterrorism. Thisfocusisnecessitated by the unique challengesposed by these agents and the potential magnitude of the health and medical consequences that could result from their use. The Planning Guidance does not specifically address conventional weapons or radiological weapons; however, many of the planning recommendations in this Planning Guidance can be applied to conventional and radiological situations. States are advised to assess their trauma systems for their capacity to handle conventional mass casual ties and to be reminded that an explosive may be used to disperse hazardous agents.

Development

Peviously,CDCdeveloped *TenEssentialServicesforPublicHealth* incollaboration withtheAssociationofStateandTerritorialHealthOfficials(ASTHO)andtheNational AssociationofCountyandCityHealthOfficials(NACCHO).These *TenEssential ServicesforPublicHealth* appearinExhibit1.Manyofthechecklistquestionsrelate

Chapter1: Overview

directlytotheessentialservices. Developing effective capabilities under each of these essentialservices will lay a depend a ble found at ion upon which to build the key elements of the public health terrorism response system.

Inadditiontothechecklistquestions, states should refer to Fiscal Year 1999 State Domestic Preparedness Equipment Program Assessment and Strategy Development Tool Kit, adocument published by the Department of Justice (DOJ), Office of Justice Programs (OJP). Task Coft hat document contains the APublic Health Performance Assessment Instrument for Emergency Preparedness@developed by CDC and OJP in conjunction with ASTHO and NACCHO. The health assessment is a sessment is a sessment is a sessment of the program of th

ThisPlanningGuidanceisbasedonthepremisethateachstatewillusetheinformation obtainedfromthecompletedOJPhealthassessmenttoestablishitsba selinepublic healthcapability.Thiscapabilityassessmentwillthenformthebasisforterrorism emergencyresponseplanning.

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^dThegovernorofeachstatedesignatedaStateAdministrativeAgencyDirector.Thesedesignees receivedtheToolKit.AWebversionoftheinstrumentalsoisavailablefordownloadingatURL: www.oip.usdoj.gov/osldps.

Exhibit1:TenEssentialServicesforPublicHealth

Torespondeffectivelytoterrorism, states should have he capacity to:

- Monitorhealthstatustorapidlydetectandidentifyaneventduetohazardousbiological, chemical,orradiologicalagents(e.g.,communityhealthprofilebeforeanevent,vital statistics,andbaselinehealthstatusofthecommunity);
- Diagnoseandinvestigateinfectiousdiseaseandenvironmentalhealthproblemsand healthhazardsinthecommunityspecifictodetectingandidentifyinganemergencyevent duetoahazardousbiological,chemical,orradiologicalagent(e.g.,effective epidemiologicsurveillancesystems,laboratorysupportnecessaryfordetermininga biological,chemical,orradiologicaleventinatime -sensitivemanner);
- Inform,educate,andempowerpeopleaboutspecifichealthissuespertainingtoathreat oremergencyevent duetothereleaseofahazardousbiological,chemical,or radiological agent(e.g.,healthcommunicationeffectivenessinimplementingarapidand effectiveresponse);
- Mobilizestateandlocalpartnershipstorapidlyidentifyandsolvehealthproblemsbe fore, during,andafteraneventduetoahazardousbiological,chemical,orradiologicalagent, includingissuesrelatedtotheNationalPharmaceuticalStockpile(e.g.,demonstratean effectiveknowledgeofallkeypartnersinvolvedineffectivelyrespond ingtoanemergency event,includingterrorism);
- 5. Developpolicies and plans that support individual and community health efforts in preparing for and responding to emergencies due to hazardous biological, chemical, or radiological agents (e.g., demonstration of practical, realistic, and effective emergency response plans);
- Enforcelawsandregulationsthatprotecthealthandensuresafetyincaseofan emergencyorthreatduetoahazardousbiological,chemical,orradiological agent(e.g., enforcementof sanitarycodestoensuresafetyoftheenvironmentduringaterrorism event);
- 7. Linkpeopletoneededpersonalhealthservicesinthecourseofathreatoreventduetoa hazardousbiological,chemical,orradiologicalagent(e.g.,servicesthatincreaseac cess tohealthcareinatimelyandeffectivemanner);
- 8. Assureacompetentandtrainedpublicandpersonalhealth -careworkforceforrapid responsetoathreatoreventduetoahazardousbiological,chemical,orradiological agent(e.g.,educationandtrai ningforallpublichealth -careprovidersineffective responsetoanemergencyeventorthreat);
- 9. Evaluateeffectiveness,accessibility,andqualityofpersonalandpopulation -basedhealth servicesavailabletorespondtoathreatoreventduetoahazardo usbiological,chemical, orradiologicalagent(e.g.,continuousevaluationofpublichealthprogramswhich respondeffectivelytoapublichealthemergency);and
- 10. Participateinresearchfornewinsightsandinnovativesolutionstohealthproblems resultingfromexposuretoahazardousbiologicalorchemical agent(e.g.,linkswith academicinstitutionsandcapacityforepidemiologicandeconomicanalysesofa chemicalorbioterrorismevent).

Chapter2

GENERALPUBLICHEALTHPREPAREDNESS

GeneralPrepare dness^e

[DOJ/CDCPublicHealthPerformanceAssessment:4.1;5.1]

Theworsttimetodeterminetheappropriateactionsinresponsetoanemergency situationisduringtheemergency. Thus, it is critical that health department of ficials clarify the prepared ness roles and responsibilities of their departments and identify likely response activities before they are needed.

Preparednessencompassesthevariousactivitiesthatcanbetakenbeforean emergency. Suchactivities define and enhance the response stemandrange from expanding existing surveillance systems to developing and maintaining aviable EOP.

Routineprocedures, which health departments followind ay -to-day operations, are likely to exist already whether or not they have been formalized int oSOPs. On the other hand, EOPs establish roles, responsibilities, and protocols for responding to an emergency situation and are reserved for special or unique situations. The EOPs hould not be written until the planners have a consistent understanding of what constitutes emergency circumstances B those times when routine procedures must be augmented by the emergency-unique procedures or protocols in the emergency plan.

KeyElementsofaPublicHealthPreparednessProgram

Intheeventofterrorismincid ent,inparticularcovertterroristattacks ,thepublichealth communitywillhaveaspecialroleinpreventingillnessandinjury. Aswithemerging infectious diseases, early detection of a terroristattack and control of its consequences dependonastr on gandflexible publichealth systematthelocal, state, and federal levels and on the vigilance of health - careworkers throughout the nation who may be first to observe and report unusual illnesses or in juries.

Forpublichealthdepartmentofficialst oeffectivelypreparetheirdepartmentsto respondtoanactualorthreatened terrorismevent,thedepartmentsmustbecapableof thefollowing:

^e Referencesaremad etotheDOJ/CDCassessmenttoolthroughoutthisdocumenttolinkvarious aspectsofthisPlanningGuidancewithpublichealthassessmentindicators.

- \$ Identifyingthetypesofeventsthatmightoccurintheircommunities.
- \$ Planningemergencyactivitiesinad vancetoensureacoordinatedresponse totheconsequencesofcredibleevents.
- \$ Buildingcapabilitiesnecessarytorespondeffectivelytotheconsequencesof thoseevents.
- \$ Identifyingthetypeornatureofaneventwhenithappens.
- \$ Implementingtheplan nedresponsequicklyandefficiently.
- \$ Recoveringfromtheincident.

Tomeetthesecapabilities, ahealthdepartmentshould develop the following Key Preparedness Elements for Terrorism Response:

KeyPreparednessElements

- 1. HazardAnalysis
- 2. EmergencyResp onsePlanning
- 3. HealthSurveillanceandEpidemiologicInvestigation
- 4. LaboratoryDiagnosisandCharacterization
- 5. ConsequenceManagement

Elements1are2arecoveredinAppendixI.Elements3,4,and5encompass Chapters3,4,and5,respectively.

Tocom plementthisPlanningGuidanceandtosupportstateplanningefforts,CDC maintainsapublicWebsiteonbiologicalandchemicalterrorismpreparednessand responseatURL: www.bt.cdc.gov. Thissiteprovidesspecificdisease/chemical informationthatstat eandlocalagenciesneedtoensuretheyaredevelopingsound plansbaseduponthenatureofthethreat. Informationpertainingtocurrentevents, training, stateandlocalcontacts, medicalmanagementofpatients, hospital

preparednessguidance, legal issues, and avariety of public relations/media reference materials also are available on this Website.

ManagingtheIncidentScene

Thissectionbrieflyexplainsthemanagementstructureusedmostoftentodirecton sceneemergencyresponseactivities. Itisincludedtohelphealthdepartmentsbetter coordinatetheireffortswithon -sceneactivities.

AnincidentismanagedthroughtheactionsofCommandandControl .Whetherthe incidentissmallorlarge,CommandandControlAdirectand/orcontrol resourcesby virtueofexplicitlegal,agency,ordelegatedauthority.@ ^fTheCommandandControl structuremostcommonlyusedtodayintheUnitedStatesisIncidentCommand System/UnifiedCommand(ICS/UC).IncidentCommandmanagesthescene,whereas UnifiedCommanddescribestheintegrationoffederal,state,andprivateresourcesinto asingleresponseundertheprinciplesoftheIncidentCommandSystem.

Portionsoftheat -largepublichealthcommunity,especiallyEmergencyMedical Services(EMS),are familiarwithandhaveplayedaroleintheICS.However,that familiaritydoesnotapplynecessarilytohealthdepartmentsandhospitals.Statehealth departmentofficialsshouldgainaworkingknowledgeoftheICSandUCforseveral reasons.Increasi ngly,traditionalfirstrespondersareaskinghealthdepartmentsto provideon -scenetechnicalassistanceforterrorismthreats.Healthdepartmentofficials needtounderstandtherolesandpositionsoftheirdepartmentsintheICSstructureto providepu blichealth -relatedinformationthroughtheappropriatefunctionalgrouptothe incidentcommander.Whetheron -sceneornot,healthdepartmentofficialsshould understandthemanagementstructurethroughwhichtheirdepartmentswillmostlikely coordinatethemanagementofpublichealthissuesandtrackpatients.

TheICSisbuiltaroundthecommandfunctionandfoursubordinatefunctions: planning,operations,logistics,andfinanceandadministration. These functions are the foundation for the develop ment of the ICS organization. The system is designed to expand from one person performing all tasks under the command function to several hundred people supporting each function. All personnel and resources involved in the response effort are assigned to one of these five functions.

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^fAdaptedfromFEMA =sBasicIncidentCommandIndependentStudyCourseavailableatURL: www.fema.gov/emi/is195lst.htm.



 $^{{}^}g Formore information, please refer to FEMA = sBasic Incident Command Independent Study Course, the U.S. Fire Administration/National Fire Academy = sFire Command Operations course, (http://www.usfa.fema.gov/nfa/tr6e5.htm), and Emergency Respon seto Terrorism: Incident Management, (http://www/usfa.fema.gov/nfa/tr6m1.htm).$

Chapter3

GENERALHEALTHSURVEILLANCEANDEPIDEMIOLOGIC INVESTIGATIONCONSIDE RATIONS

GeneralHealthSurveillanceandEpidemiologicInvestigationPlanning

[DOJ/CDCPublicHealthPerformanceAssessment:1.1;2.2;2.3.7;5.1.1.16;6.2.1.11; 10.1]

Well-developedsurveillanceandepidemiologiccapacityisthefoundationonwhich healthdepartmentswilldetect, evaluate, and designeffective responses to terrorism events. Not only will this capacity facilitate the initial detection and response in a terrorism event, it will be essential to monitoring the impact of these events and the effectiveness of publicheal thresponses. Detection of a cuteorinsidious terrorism attacks using biological (or certain chemical) agents also will require linking of data from a variety of sources. An effective publicheal thresponse will depend on the time liness and quality of communications among numerous partners C publicheal thag encies at local, state, and federal levels; clinicians; laboratories; poison centers; medical examiners; and other healthresponse partners.

Complementingtheneedforacc urateandtimelycasereportsistheneedforexpertise toanalyzetheinformationproperly. Epidemiologicexpertiseiscriticaltojudging whethertheincidentinvolvesbiologicalorchemicalagentsorisaconsequenceofa naturalphenomenon, anacciden t, orterrorism. Expertisealsoiscriticalindetermining thelikelysiteandtimeoftheexposure; sizeandlocationofthepopulationexposed; prospectfordelayedexposureorsecondarytransmissionofaninfectiousagent; and whetheranypeopleshould receiveprophylaxis (eithermedicationsorvaccines) and, if so, which population groups.

Timelyandaccurateinformationandanalysismustbecoupledwitheffectiveandrapid disseminationofinformationtothosewhoneedtoknow(e.g.,responsepartner sand thepublic)toinstillconfidenceinboththeshort -andlong -termresponseoftheaffected community.

PlanningRequirements

PersonnelandTraining

Effectiveepidemiologicandsurveillanceplanningmustbeginwiththedesignationof abioterrorism coordinatorwhowillleadoractivelyparticipateintheplanning processforterrorismpreparedness. This coordinatoral so can serve a sliais on to responsepartnersinotherpublichealthandnon -publichealthagencies.

Nomatterhoweffectivethedesi gnedsystem.itwillfalterunlessasufficientnumber ofappropriatestaffmembersareidentifiedtoconductepidemiologicinvestigations intheeventofasuspectedorconfirmedbiologicalorchemicalterrorismevent. Adequatesurgecapacityisespecial lyimportanttomeetemergencyneeds.

Tomaximizeeffectiveness, the states hould train state and local public health staff inissuesrelatedtopossibleterrorismevents, including health surveillance, communitymedicalneedsassessments,epidemiology, outbreakinvestigation, and workerbiosafetyissues. This bioterrorism training should be coordinated withother federal, state, and local health programs to ensure integration of bioterrorism preparednessandresponseactivities. These may include the H ealthAlertNetwork. theEmergencyPreparednessInformationExchange (Epi -X)theEmerging InfectionsProgram,theEpidemiologyandLaboratoryCapacityprogram,Information NetworkforPublicHealthOfficials, AssessmentInitiative, HazardousSubstances EmergencyEventsSurveillance,influenzasurveillance,andotheremergency responseprograms, including local Metropolitan Medical Response Systems (MMRS).

LegalAuthorityforSurveillanceofBiologicalorChemicalIncidents

Healthdepartmentsgenerallypo ssessthelegalauthoritytoreceivereportsand investigateunusualillnessclusters. Totheextentyourstate=sdiseasereporting lawsdonotincludeabroadrequirementtoreportunusualorexoticdiseasesor manifestationsofillness,includingsucha requirementshouldspeedrecognitionof anoutbreak, whether naturally occurring or terrorism -related.

Thereportablediseaseslistalsoshouldincludecasesofdiseasessuspectedor confirmedtobecausedbyhighprioritybioterrorismagents. ^hTounder scorethat thesediseasesareofspecialinterestandrequireimmediatereporting,publicizeand highlightthemonthereportablediseaseslistorlistthemseparatelyfromother notifiablediseases.

PublicHealthSurveillanceandEpidemiologicResponse Plan

Aswiththeoverallplanningprocess, development of enhanced surveillance and epidemiologic protocols requires collaboration among appropriate publiche alth partners. The partners include CDC and other federal response agencies, state and local publiche althagencies, hospitals, health -care providers, medical examiners, animal health providers, pharmaceutical suppliers, emergency managementagencies, and lawen forcementagencies.

Theplanshouldincludealgorithmsforidentifyingwhicheventsshou Idbeinvestigated (includingcasedefinitionsforthoseevents) and how to investigate them (including methods and data sources for rapid case ascertainment under emergency conditions). The planshould identify whom to contact through the compilation and distribution of a directory of emergency resources and contacts (including state and local public health contacts, health -care providers, MMRS, lawen forcement of ficials, etc.) Finally, the plan should distinguish how and to whom to disseminate informati on for appropriate action.

EnhancedCapacityforEmergencyCommunications

Ifnotalreadyinplace, provide a well -publicized 24 -hour/day system to facilitate disease reporting to the local and state health departments, especially for reporting diseases related to potential terrorisme vents. The system should include rapid notification of keypeople (e.g., state epidemiologist, statel aboratory director, and state emergency management of ficials). The state also should develop a broadcast fax network or other rapid means for disseminating emergency information. This system should be tested regularly and updated, a snecessary.

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^hSeeCDC =scriticalbiologicalagentslistinAnnexA.

EnhancedCollaborationAmongPublicHealthPartners

Thefirststeptowardinformationsharingistheeffectivecollaborationamo ng membersofthepublichealthcommunity. Toaccomplishthistask, it is necessary to identifywhichagenciesandorganizationsmustbeintegrated. Forsurveillance purposes, the publichealth systemismuch more than state and/or local health departments. Attheveryleast, the following organizations should coordinate informationandsharepublichealth -relateddata:

SurveillancePartners

Statehealthdepartment	County/healthdepartments
EmergencyMedicalServices	Dispatch/911
Socialserviceagencies	Volunteerorganizations
Hospitals	Mentalhealthprofessionals
Clinicsandphysicians	Poisoncenters
Epidemiologists	Pharmacists
Medicalexaminer/coroner	Veterinaryservices
Laboratories	

Coordinationamongtheseagenciesandorganizationscanbeenhanc edthrough activities such as the following:

- \$ Identifyanddistributepointsofcontactandcommunicationsinformationto criticalresponsepartners.
- \$ Provideeducationaboutpublichealthsurveillance, disease reporting, epidemiology, and response activit ies related to bioterrorism to publiche alth responsepartners.
- \$ Collaborateoneducationalactivitiesontopicsrelatedtobioterrorism preparednessforthegeneralpublicorgeneralmedicalcommunity.
- \$ Provideorpromotein -servicetrainingorAgrandrou nds@forthemedical community.

 Developandimplementcollaborativesurveillanceprojectsbyutilizing traditionalandnon -traditionaldatasources.

EnhancedSurveillancewithNon -traditionalHealthPartners

Oncethestate=sbasicsurveillancesystemi sinplace,thestatemaychooseto implementenhancedsurveillancesystems. Thesesystemsestablish frequency thresholds for disease and health -related syndromes, which allowe pidemiologists to detect aberrations. These systems may utilized at a such as 911 calls, ambulance activity, patient visits to urgent care or emergency departments, pharmaceutical inventories, calls to poison centers or nurse hot lines, school or work absentee is m, and detection of aberrations through rapid medical examiner reporting and veterinarian or an imal health reporting.

Formoreinformationaboutthesespecialized surveillance systems, contact CDC = 8 Bioterrorism Preparedness and Response Program at (404)639 -0385.

Preparedness

Manyterrorismeventswouldnotbeidentified inthehighprofile, sudden -impactmanner thatmostemergencies are portrayed. Instead, the observant physician, veterinarian, laboratory technician, surveillance data entryclerk, etc., who recognizes an unusual illnessor cluster of illnesses or increas es in requests formedical services or aspecific diagnosis, will most likely be the first to identify the event. For this reason, training of all personnel associated with publiche alth surveillance should be a priority of terrorism response preparedness.

Toaidpublichealthsurveillancepreparedness,CDCrecentlydevelopedalistof epidemiologiccluesthatmaysignalabioterrorismevent.(SeeExhibit2.) ⁱBy developingeachaspectdescribedintheHealthSurveillanceandEpidemiologic CapacityChe cklistandinthePlanningGuidance,theopportunitytorecognizeand respondtotheseearlycluesbecomesaproductoftheimprovedpublichealth infrastructure,ratherthanachancediscovery.

ⁱAlsoseeWienerSL,BarrettJ.Biologicalwarfaredefense.In:TraumaManagementforCivilianand MilitaryPhysician s.Philadelphia,PA:WBSaunders;1986:508 -509.

¹Whiletheepidemiologiccluesweredevelopedtoidentifyabiologicalterrorismevent,manyofthemmay applytoachemicalattack,andallapplytoaninfectiousdiseaseoutbreak.

Extraordinarymeasuresarenotnecessarytodevelopacomp rehensiveterrorismhealth surveillanceandepidemiologicnetwork. Initiating partnerships and developing newor pre-existingdatalinksalwayshavebeencomponentsofpublichealthsystems, althoughthoselinksrarelyhavebeenwithemergencymanagement orlawenforcement agencies. The potential risk for a terrorism event makes it imperative that any enhancedsurveillanceandepidemiologicsystembeintegratedsmoothlyintoroutine publichealthactivities. Developing partnerships between publicand pri vatehealth care, emergency management, and lawen forcement entities, while using current technologytopromotetimely disease identification and reporting, can improve the daily capacityofacommunitytorespondtoillnessanddiseaseregardlessofmagni tude.

Exhibit2

EpidemiologicCluesThatMaySignalaCovertBioterrorismAttack

- \$ Largenumberofillpersonswithsimilardiseaseorsyndrome.
- \$ Largenumberofunexplaineddisease,syndromeordeaths.
- \$ Unusualillnessinapopulation.
- \$ Highermorbidit yandmortalitythanexpectedwithacommondiseaseorsyndrome.
- \$ Failureofacommondiseasetorespondtousualtherapy.
- \$ Singlecaseofdiseasecausedbyanuncommonagent.
- \$ Multipleunusualorunexplaineddiseaseentitiescoexistinginthesamepatientwi thout otherexplanation.
- \$ Diseasewithanunusualgeographicorseasonaldistribution.
- \$ Multipleatypicalpresentationsofdiseaseagents.
- \$ Similargenetictypeamongagentsisolatedfromtemporallyorspatiallydistinct sources.
- \$ Unusual, atypical, genetically engineered, orantiquated strain of agent.
- \$ Endemicdiseasewithunexplainedincreaseinincidence.
- \$ Simultaneousclustersofsimilarillnessinnon -contiguousareas,domesticorforeign.
- \$ Atypicalaerosol,food,orwatertransmission.
- \$ Illpeoplepresenting nearthesametime.
- \$ Deathsorillnessamonganimalsthatprecedesoraccompaniesillnessordeathin humans.
- \$ Noillnessinpeoplenotexposedtocommonventilationsystems,butillnessamong thosepeopleinproximitytothesystems.

	HealthSurveillanc eandEpidemiologicInvestigationChecklist		
Co	reSurveillanceandEpidemiologicPlanning	Y e s	N O
1.	Haveyoudesignatedacoordinatortohealthsurveillanceandepidemiologyactivities relativetoabiologicalorchemicalincident?		
2.	Canthecoord inatorbecontacted24hoursperday?		
3.	Haveyoudesignatedappropriatestafftoconductepidemiologicinvestigationsinthe eventofsuspectedorconfirmedbiologicalorchemicalincidents? 1. Rapid-responseepidemiologicteam? 2. Rapid -responselaborato ryteam? 3. Real-timehealthsurveillanceset -upteam(emergencyorspecialized)?		
4.	Havedesignatedstaffbeenbriefedontheirmission,roles,responsibilities,and authorities?		
5.	 Haveyouassuredthelegalauthorityforsurveillance ofbiologicalorchemical incidentsbythefollowing: Includingcasesofdiseasessuspectedorconfirmedtobecausedbyhigh prioritybioterrorismagentsonthereportablediseaseslist(anthrax,botulism, brucellosis,plague,smallpox,tularemia)? IncludingAanyunusualdiseaseormanifestationofillness@onthereportable diseaseslist? IncludingAanyunusualclusterofdiseaseormanifestationofillness@whether ornotonthereportablediseaseslist? Includingthelegalauthoritytocondu ctsurveillanceforanyunusualclusterof diseasesormanifestationofillnesswhetherornotonthereportable diseaseslist? 		
6.	Haveyoudistributedorpublicizedbioterrorism -updatedreportablediseasesliststo appropriatehealth -careproviders?		
7.	HaveyouestablishedcommunicationswiththeDepartmentofHealthandHuman Services(HHS)regionalemergencycoordinatorstodeveloplocalsurveillance andresponseplans?		

HealthSurveillanc eandEpidemiologicInvestigationChecklist		
CoreSurveillanceandEpidemiologicPlanning	Υ	N
- Corecal venianocana Epidennologion lanning	е	0
	s	
Haveyouestablishedcommunications withotherhealth -careproviderstodevelop localsurveillanceandresponseplans?		
Checkallthatapply!		
Emergencydepartmentsathospitalsorurgentcarecenters		
Hospitals(InfectionControl,InfectiousDiseases,Laboratories,Pharmacies)		
Occupatio nalhealthclinics Mentalhealthagencies		
Pharmacies Epidemiologists		
Infectiousdiseasespecialists HealthMaintenanceOrganizations		
Socialservicesagencies PoisonControlCenters		
Haveyouestablishedcommunicationsw ithlawenforcementagenciestodevelop localsurveillanceandresponseplans? Checkallthatapply!		
Locallawenforcement LocalFBIoffice Correctionalfacilities		
Haveyouestablishedcommunicationswithemergencyresponderstodevelo plocal surveillanceandresponseplans? Checkallthatapply! 911dispatchers EMSandambulanceworkers Police Fire		
11. Haveyouestablishedcommunicationswithotheragenciestodeveloplocal	-	
surveillanceandresponseplans?		
Checkallth atapply!		
Emergencymanagementagencies(localandstate)		
Medicalexaminers,coroners,funeraldirectors		
VeteransAdministration		
DepartmentofNaturalResourcesorEnvironmentalProtectionAgency		
Militarybases(DepartmentofDefense,National Guard)		
Localfood -safetyinspectors(FoodandDrugAdministration,		
U.S.DepartmentofAgriculture)		
12. Haveyouestablishedcommunicationswithotheravailableresourcestodevelop localsurveillanceandresponseplans?		
Checkallthatapply!		
L aboratories(clinical,commercial,andveterinary)		
Poisoncenters Veterinarians		

	HealthSurveillanc eandEpidemiologicInvestigationChecklist		
Cor	eSurveillanceandEpidemiologicPlanning	Y e s	N O
13.	Haveyoudevelopedanemergencyoraround -the-clockcommunicationsnetworkto respondtobiologicalandchemicalincidents,includingthefollowing: a. Emergencyorreal -timereportingofbiologicalorchemical -relateddiseasesor illness? b. Immediatenotificationofsurveillance/epidemiologicresponsepersonnel,such		
	asstateorlocalepidemiologist,laboratorydirector,andemergency managementofficials? c. Broadcastfaxore -mailcapabilityorothermeansofemergencydissemination ofinformation(e.g.,Website)? Tohealth -careproviders? Tothepublic?		
14.	Haveyouenhancedcollaborationbetweenpublichealthandsurveillance partners bythefollowing: a. Usingbroadcastfaxore -mailcapabilityorothermeansofemergency		
	disseminationofinformation(i.e., Website)? b. Identifyingpointsofcontactandcommunications? c. Providingeducationalseminarsaboutpublichealth surveillanceandwhat diseasestoreportandwhere, when, and how to report them?		
	 d. Partneringoneducationalactivitiesforthegeneralpublicandgeneralmedical communityaboutrelevantconditionsandsyndromesandtheroleofpublic healthinterror ismpreparedness? e. Providingin -servicetrainingorAgrandrounds@onterrorismpreparedness? f. Partneringoncollaborativesurveillanceprojects? 		
15.	Haveyoutrainedpublichealthstaffonissuesrelatedtopos sibleterrorismevents, includingsurveillance,epidemiology,andinfectiousdiseaseoutbreak investigations?		
16.	Haveyoudevelopedtrainingmanualsforpublichealthstaffandterrorismresponse partners?		
17.	Haveyouconductedorparti cipatedinexercisestotesttheadequacyofthepublic healthsurveillancesystemandepidemiologicresponse?		

Adva	ancedSurveillanceandEpidemi	ologicInvestigationChecklist Yes	No
1	. Haveyouinitiatedasurveillance eventsbythefollowing:	systemfortheearlydetectionofterrorism	
	a. Identifyinginfluenza - forinclusionindisease	keillnesses,rashes,orothersyndromesofinterest	
	b. Establishingreporting	mechanismswit hanyofthefollowingsystems?	
	EMS/911dispatch		
	Poisoncenters		
	Healthsystempatienthotline	S	
	Unusualdeathsormedicale		
	Veterinariansandanimalclir	•	
	Emergencydepartmentorin	ensive -careunitadmi ssions	
	Other		
2.	Haveyouimprovedtimelinessofde following:	velopedelectronicreportingfromanyofthe	
	_	allthatapply!	
	Clinicallaboratories	Hospitalinformationsystems	
	Emergencydepartments Other	Vitalrecords	
3. 1		atasourcesandsystems, suchasthoselisted dchemicalincident detection and response?	
	Chec	callthatapply!	
	HHSregionalemergencycoordir		
	Healthmainte nanceorganization	5 , .	
	Hospitaldischargerecords	FBI	
	Veterinariansandanimalclinics	Other	
	Poisoncenters		
4. I	Haveyoudevelopedwrittenprotoc touseincollectin gandstorin	olsforepidemiologistsanddiseasepractitioners laboratorysamples?	
5. l	Haveyouidentifiedapointofcontac aboutlaboratorysamples?	atlocalandstatelevelstoanswerquestions	

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Chapter4

LABORATORYIDENTIFICATIONAND CHARACTERIZATIONOF BIOLOGICALTHREATAGENTS

GeneralLaboratoryldentificationandCharacterizationPlanning

[DOJ/CDCPublicHealthPerformanceAssessment:2.3]

ThisportionofthePlanningGuidancefocusesprimarilyonestablishingandenhancing thecorecapacityofpublichealthlaboratoriestorespondtobiologicalterrorism.In addition,thisplanningprocesscanservetoestablishanenhancedsysteminvolving hospitallaboratories,commercialreferencelaboratories,publichealthlaboratories,a highlyspecializedfederallaboratoriestostrengthendiagnosticcapabilityforall infectiousdiseasesingeneral.

nd

IntegrationofLaboratoriesintotheResponse

IncooperationwiththeAssociationofPublicHealthLaboratoriesandtheFederal BureauofInvestigation(FBI)andthroughtheCDCBioterrorismCooperative agreement,CDCestablishedamulti -levelLaboratoryResponseNetwork(LRN)for bioterrorism.TheLRNcompriseslocal,state,andfederallaboratoriesand facilitatessamplecollection,t ransport,testing,surgecapacity,andtrainingfor laboratoryreadinesstoidentifycriticalbiologicalagents.Clinicalandpublichealth laboratoriesinthenetworkareidentifiedbyincreasinglevelsofproficiencyfrom LevelAtoLevelD.Currently ,all50statepublichealthlaboratoriesareregistered membersoftheLRN.LevelB/Cdesignationisagent -specific,whichnecessitates participationinawiderlaboratorynetwork.StatePublicHealthLaboratoryDirectors arrangeforaccesstotheLRN.

LaboratoryCapabilities/Capacities

Identifyingthecapabilityandcapacityofeachlaboratoryinyourjurisdictionisthe firststepinthelaboratoryplanningprocess. Eachpublichealthlaboratoryand clinicallaboratoryinyourhealthjurisdictions houldbeassessedtodetermineits appropriatelevelofcapabilitywithintheLRN.

^k SeeAnnexAforades criptionoftheexpectedcapabilitiesoflaboratoriesateachclassificationlevel.

MostlaboratoriesintheUnitedStateshaveonlyLevelAcapabilities.Thecapability ofthoselaboratoriestoidentifymostbioterrorismagentsislimited;theability to identifyaneventrestsontheirknowledgeofandrapidaccesstothenearestLevel B/Claboratory.

ThroughCDC=sWebsiteURL: www.cdc.gov, alllaboratorieshaveaccesstoLevel Aprotocolsforrulingoutcertainagentsandforwardingthosesamplest omore advancedlaboratories. Additionally, LevelB/Claboratories registered as members of the LRNhaveaccess to apassword -protected Website that provides protocols for confirmatory testing, susceptibility testing, molecular typing, toxicity testing, and transport to the next highest level laboratory. For laboratories concerned with responses to bioterrorisme vents, the chief benefit of belonging to the network is access to approved protocol sthat satisfy both public health and lawen forcement requirements. Adhering to the seprotocol swill be critical to the rapid identification of a public healthemer gency and will help lawen forcement apprehend the perpetrators.

Alaboratory=scapacitytodetect,isolate,andidentifyspecificagentsrapidlyand accuratelyiscriticaltotheoverallresponsetoabioterrorismevent.Qualitycontrol andassuranceprotocols,approvedspecimen -handlingprocedures,andapproved trainingandtechniques,usingqualifiedstaff,arenecessaryforeachlaboratoryto fulfilltheinvestigativeneedsofitssurveillance,epidemiologic,andlawenforcement partners.

PointsofContact

Responseplansshouldincludealistconsistingofeachlaboratoryparticipatingin thestatenetwork,itscapabilitylevel,andtheappropria tecontactperson. Higher level (B/C) laboratories in the network must be capable of receiving and testing samples on a 24/7 basis.

SurgeCapacity

TheLRNanticipatedtheneedforlaboratorysurgecapacityintheeventofalarge scaleevent.EachLR Nlaboratoryshouldidentifytheclosestlaboratoryofequalor higherlevelcapabilitytoprovidesurgecapacity,ifneeded.LRNmemberscan conductanon -linesearchfortheclosestequalorhigher -levellaboratorytotheir locationthroughthepassword protectedLRNWebsite.

ObtainingReagents

AllreagentsrequiredforperformingLevelB/Ctestingcanbeorderedon -line throughthepasswordprotectedLRNWebsitebymemberswhoareregisteredand approvedatthecorrespondinglevels.Plansshouldi ncludehavingadequate suppliesonhandtopermitroutineproficiencytestingandpreparednessfora potentialbioterrorismevent.

UseofStateLaboratoriesvs.CDCLaboratories

TheLRNwasestablishedtofacilitateBasrapidlyaspossibleBtheidentifica tion, confirmation,andcharacterizationofbioterrorismthreatagents.Thestatepublic healthlaboratorymostoftenwillbetheappropriatelaboratorytosubmitsamplesfor higherleveltesting.

Ifapublichealthlaboratoryneedsadditionalassistance inidentifyingor characterizingabiologicalthreatagent, specimens may be sent to CDC=sRapid Response and Advanced Technology (RRAT) Laboratory. The RRAT Laboratory serves as the point of entry for all suspected or confirmed biological threatagents. CDC also will provide surge capacity, if needed. All specimens suspected of small poxorviral hemorrhagic fever should be sent directly to the RRAT laboratory through the local FBI Weapons of Mass Destruction (WMD) Coordinator.

	General	Yes	
1	Isthestatepublichealthlaboratoryrepresentedintheemergencyplanning process?		
2.	Doesyourplanincludealistingofallthememberlaboratoriesinyourstate LaboratoryResponseNetwork,inc ludingthefollowing:		
	a. Eachlaboratory=scapability(LevelA -C)?		
	 b. Contactinformationforeachlaboratoryleadperson(availableona24/7 basis)? 		
3.	Haveyouidentifiedthelaboratoriesinyourstatethathavethecapacitytobegin testingwit hin4hoursandmaintaintesting24hrs/dayforaminimumof3days?		
4.	HaveyouworkedwiththeWMDCoordinatorofyourlocalFBIfieldofficeto establishguidelinesforchainofcustodyprocedures?		
5.	Haveyouestablishedanddistributedguidelin esonspecimencollection, packaging,labeling,andshippingtostatenetworkandfederallaboratories?		
6.	Doyouhaveasysteminplacetosafelyandefficientlytransportsamples betweenlaboratoriesinyourstatelaboratorynetwork?		
7.	Haveyou establishedanddistributedtoallnetworklaboratoriesinyourstate guidelinesfortherapidreportingofsuspectedbioterrorism -relatedthreatagents tothefollowingresponsepartners:		
	a. Localhealthdepartmentepidemiologist?		
	b. Statehealthdepartmentepi demiologist?		
	c. Locallawenforcement?		
	d. Statelawenforcement?		
	e. Federallawenforcement?		
8.	Canthestatehealthdepartmentreceiveelectroniclaboratoryreportsfrom diagnosticserviceproviders?lfyes,arereportsreceivedfromthef ollowing?		
	a. Privatelaboratories?		
	b. Commerciallaboratories?		
	c. Hospitallaboratories?		
	d. Localhealthdepartmentlaboratories?		
	e. Statehealthdepartmentlaboratories?		ı

Chapter5

CONSEQUENCEMANAGEMENTOFAPUBLICHEALTHEVENT

ConsequenceManagementPlanning

ConsequenceManagementincludesmeasurestoprotectpublichealthandsafety; restoreessentialgovernmentservices; and provide emergency relief to governments, businesses, and people adversely affected by the terrorisme vent (4). Presidential Decision Directive 39 assigned states the primary authority to respond to the consequences of terrorism and authorized the federal government to provide assistance to states. Consequence Management activities can be separated in to two distinct yet overlapping phases: the response phase and the recovery phase.

Publichealthdepartmentsshouldperformavarietyofconsequencemanagement functionstoprotectpublichealthandsafety.Someofthesefunctionsarelistedbelow. Rolesandresp onsibilitiesforeachoftheseactivitiesshouldbeidentifiedinthe terrorismresponseplanwithresponseproceduresdetailedinsupportingSOPs.

ResponsePhaseActivities

Theresponsephaseofaterrorismeventcoverstheinitialactionstakenast heresultof anactualorpotentialreleaseofanagent. Thisphaseincludestheactionstakento eliminatethesourceoftheagent(ifknown), provision of medical treatment to those affected, and any measurestaken to preclude the exposure of additional people, either through secondary exposure from contagious biological agents or, for chemical events, from en viron mental contamination (5). A variety of the response activities required during the response phase fall directly within the health department = si uris diction.

CommandandControl

[DOJ/CDCPublicHealthPerformanceAssessment:2.1;4.1;5.1;8.2.9]

CommandandControlweredescribedbrieflyinChapter2.Thefollowingsections outlinespecificactivitiesthatshouldbeplannedtomanagethe eventeffectively.

PresidentialDecisionDirective39,UnitedStatesPolicyonCounterterrorism(Classified),1995June.

Emergency Operations

Theplanshouldidentifythelocationfromwhichthehealthdepartmentwould conductitsemergencyoperations. This sites hould be secure and capable of 24-hour operations with sufficient equipment, backuppower, and a communication saystem. Among other activities, healthdepartment personnel could coordinate the triage of patients and use of resources (e.g., bedspace, staffing) among various health -carefacilities.

Inmoderatetolarge -scalesituations, thes tatemaymanagetheresponse operations from a central Emergency Operations Center (EOC). Representatives from all responding agencies can work at the EOC to coordinate policy decisions and managenecessary resources. In general, the EOC is activated whe none or more of the following occur:

- \$ Outsideresourcesareneededtoaccomplishtheworkrequiredbythe incident.
- \$ Theincidentrequiresthecoordinationofmultipleagencies.
- \$ Theeventcoversalargegeographicareaorinvolvesmultiplejurisdictions
 (5).

Theplanshoulddesignate, by title, the publichealth personnel (and alternates) responsible for staffing the centralized, activated EOC.

Conditions for Activation

Oncepublichealthactivitiesareintegratedintothestateemergencyplan, the stateshouldidentify the official authorized to activate the publichealth provisions of the EOP and designate a chain of command for activation. The state also should identify the criteria, if any, that he alth departments can use to activate their emergency procedures independently of activating the state = sentire EOP and designate a chain of command for such activation.

Theplanshouldspecifyeventsthattriggerplanactivation. Specificscenarios arenotneeded, buttheplanshould include generic guidance on the types or magnitude of events that trigger activation.

InteragencyCoordination

[DOJ/CDCPublicHealthPerformanceAssessment:4.1]

Theplanshoulddescribetherelationshipbetweenstateandlocalresponse efforts. Italsoshouldd escribewhenfederalassetswouldberequested. The planshoulddescribeproceduresforcoordinating the efforts of the various agencies and levels of government that are likely to respond to a terrorism threat or event.

Communications

[DOJ/CDCPublicH ealthPerformanceAssessment:2.1.2;2.1.3;2.2.8;3.2;3.3]

Theplanshouldincludemeasurestoensurethatpublichealthagenciesare capableofreliablecommunicationswiththeirownresponsepersonnelaswellas withallotheragenciesinvolvedinth eemergencyresponse.

Thecommunicationssystemshould

- Disseminateaccurateinformationtofirstresponders, health -care providers, and decision -makers;
- \$ IncludeprotocolsfornotifyingEOCsintheaffectedareatofacilitate communicationandcoordina tionintheeventofaterrorismevent;
- \$ Includeasufficientnumberofradiosandradiofrequenciestofacilitate communicationbetweennecessaryorganizations;
- \$ Requirethatacontactlistforallcriticallocalandstatepublichealth, medical,lawenfo rcement,andemergencymanagementpersonnelbe developed,distributedasnecessary,andverifiedatleastmonthly;and
- \$ Includeprovisionstodisseminateinformationrapidlyaboutdiagnosisand patientmanagementforhigh -riskterrorismthreatagentstolo calandstate health-careproviders,hospitals,clinics,laboratories,andpharmacies.

Emergencycommunicationsmustcoverinternalandexternalcommunications. Thus,theplanshouldaccomplishthefollowing:

- \$ Describethehealthdepartment=scapability toalertandcommunicate withitsemergencypersonnelincludingthoseinthehealthdepartment,in thestateEOC,andanyfieldresponseunits.
- \$ Identify,bytitle,thepersonandalternatesauthorizedtocommunicateand receiveemergencyinformationbetwe enthehealthdepartmentandother membersofthepublichealthcommunity.
- \$ Identify,bytitle,thepersonauthorizedtocommunicateandreceive emergencyinformationbetweenthehealthdepartment,emergency responseagencies,andemergencyresponseperson nel.

CommunicationsTesting

Theplanshouldcontainproceduresforperiodic(e.g.,monthly)testingof primaryandback -upemergencycommunicationslinkswithinthepublic healthcommunityandbetweenthestatehealthdepartmentandresponse agencies.

EventNotification

[DOJ/CDCPublicHealthPerformanceAssessment:2.1.3;2.2.8]

IncidentAssessment

Theplanshouldidentify, by title, the person and alternates responsible for assessing the threat to public health and consequences of the incident. A it should describe howevent -related data will be received and how the assessment information will be distributed and used.

lso,

NotificationAuthority

The planshould identify, by title, the person and alternates responsible for the following:

- \$ Interagencynotification.
- S Notificationofthenewsmedia.
- \$ Notificationofthepublic.

Thesepeopleandtheir24 -hourcontactnumbers(e.g.,telephone,pager) shouldbeidentifiedinthepublichealthplan,evenifthoseresponsiblefor publicnotificationorm ediacoordinationarenotpublichealthofficials.

NotificationProcedures

Theplanshouldspecifywhenandhowkeypublichealthofficialswouldbe notifiedabouttheterrorismthreatorevent.Italsoshoulddescribethe notificationandcoordination procedureswhenmultipleagenciesor jurisdictionsmustbenotified.

Theplanshouldincludealistofcontactsand24 -houraccessnumbersforall keyofficialsandagenciesinthestate.Localcontactsalsoshouldbe included,whereappropriate.Ata minimum,thelistshouldincludethe following:

- \$ A24 -hournotificationpointofcontact, with telephone and pager numbers, for each county and municipal health department in the state.
- \$ A24 -hournotificationpointofcontact, with telephone and pager numbers, for the state health departments of each bordering state.

Ensuringthatonlyup -to-datecopiesofcontactlistsaremaintainedwithinthe responsesystemisoftendifficult. The following actions can minimize reliance on out -of-datecontactlists:

- \$ Require that all emergency contact lists be reviewed at least monthly and updated whenever changes in personnel occur.
- \$ Limitdistributionofemergencycontactlisttothoseresponsiblefor contactingemergencyemployees.
- \$ Maintainarecordofperson nelwhoreceivecopiesoftheemergency contactlistanddirectlyprovideupdatedcopiesofthecontactlist, whentheyaredeveloped,tothosepeople.

CDCdevelopedrecommendednotificationproceduresforpublichealth departmentleadersintheevento fabioterrorismincident. These proceduresfocusonactivitiesatthelocallevel;however,theycontain proceduresforstate -levelnotificationsaswell.Statesshouldconsiderthese proceduresindevelopingprotocolsfornotifyingtheFBI,CDC,ando ther agencies.Ifadopted,thesesamenotificationproceduresalsoshouldbe usedinachemicalevent.

PublicAlert

[DOJ/CDCPublicHealthPerformanceAssessment:3.1]

Theplanshoulddescribetheproceduresandmeansbywhichthepublicwillbe notifiedaboutapublichealthemergency. These notification procedures should

- \$ Describethemeansbywhichthepublicwillbenotifiedaboutapublic healthemergency;
- \$ Describehowthenotificationswillbecoordinatedwithotherresponse agencies;
- \$ Providefornotificationofnon -Englishspeakingresidents;
- \$ Describehowtheprotectiveactionmessageswillprovidethedetails necessaryforthepublictoimplementtherecommendedprotective actions;and

^mCDC =snotificationproceduresareavailableatURL: <u>www.bt.cdc.gov/protocols.asp.</u>

\$ Describehowthenotificationprocedureswillbeteste datleastannually.

PublicEducationandEmergencyPublicInformation

Ifnotalreadyinplace, the health departments hould develop a comprehensive publiced ucation program that covers publiche althmatters of interest to the population. The programs hould include readily available information about reasonable risks associated with biological or chemical agents.

The publiced ucation programs hould be capable of providing health educational materials to a state = snon ensure that public hed publiced ucation materials are regularly reviewed and revised, when necessary.

Statesmusthaveestablishedproceduresforprovidingthenewsmediawith timelyandaccuratepublicinformationtoexpeditethereleas eofemergency informationintheeventofaterrorismincident. Topreventthe dissemination of inconsistent or conflicting data, one organization or person should be designated to coordinate all public information and speak to the new smedia.

EmergencypublicinformationcanbecoordinatedthroughtheuseofaJoint InformationCenter(JIC)Bacentrallocationwhererepresentativesofall respondingagenciesgathertocoordinatethedisseminationofinformationtothe publicandnewsmedia.TheJICsho uldbeavitalcomponentofacoordinated JointInformationSystem(JIS).TheJISshouldestablishprotocolsfor maintainingeffectivetwo -wayinformationflowbetweenthePublicInformation OfficersstaffingtheJICandtherespondingagencies=operatio nspersonneland decision-makers.

Socialstigmatismoccurswhenpeopleoutsideanaffectedcommunityostracize thoseresidinginapotentiallycontaminatedarea(6). Socialstigmatismhas occurredaftersomelarge -scaleaccidentalchemicaleventsandmus tbe consideredasapossibleconsequenceofachemicalorbiologicalterrorism incident. Because social stigmatism could hamperrecovery efforts and profoundly affect the long -term well being of the affected community, public education aimed at minimizin ganevent = ssocietal impacts hould be developed.

SpecialPopulations

[DOJ/CDCPublicHealthPerformanceAssessment:7.1]

Theplanshouldidentifythelocationsofspecialpopulationgroups. These groupsincludepeopleinjails, prisons, and other de tention facilities, as well as people in intermediate - and long - term carenurs in gracilities. Caremust be taken to ensure that the emergency public heathneeds of these and other identified special populations are considered and protected through provisi on scontained in the plan.

MentalHealth "

[DOJ/CDCPublicHealthPerformanceAssessment:5.1.1.19]

Emergencysituationsplacesignificantstressonbothrespondersandvictims. Theplanshouldincludeprovisionsforidentifyingandobtainingmentalhea the resourcesforthoseaffectedbyanemergencysituation. Specialcareshouldbe takentoensurethatemergencypersonnelreceivethementalhealthsupport theymayneed, especially when the response personnel or any of their family members are victims of the terrorism.

Theactsofterroristsaredeliberate. The knowledge that the deaths, illnesses, and injuries were intentional can intensify the mental health consequences of the event. Research indicates that children and the elderly react different ly to disaster-related stress than do average adults (7,8). The sed if ferences should be considered and planned for in the provision of emergency - related mental health services.

MassFatalities °

[DOJ/CDCPublicHealthPerformanceAssessment:5.1.1.28;7 .2.11]

Emergenciesgeneratingasignificantnumberoffatalitiescanposespecial challenges. Healthdepartments should work with medical examiners or

ⁿInformationpertainingtocommunitymentalhealthissuescanbeobtainedfromtheSubstanceAbuse andMentalHealthServicesAdministrationatURL: www.samhsa.govorbycalling(301)443 -2817.

[°]Assistancewithemergencymortuarymanage mentanddealingwithalargenumberofdecedentscanbe obtainedfromtheDepartmentofHealthandHumanServices,OfficeofEmergencyPreparedness,at (800)-USA-NDMS.

coronerstodevelopprotocolsfordealingsafelywithalargenumber of casualties.

NationalPharmac euticalStockpile(NPS)

[DOJ/CDCPublicHealthPerformanceAssessment:5.1.1.27;7.2]

Areleaseofselectedbiologicalorchemicalagentswillnecessitaterapidaccess tolargequantitiesofpharmaceuticalsorvaccinesand,possibly,othermedical supplies. Unless special stock piles are created, such quantities may not be readily available in the locations where they would be needed.

CDC=sfiscalyear1999budgetincludedfundstoestablishaNPS.Toensure theeffectivedistributionofstockpileass ets,thestatemustdevelopSOPsfor theirreceipt,security,anddistribution.AppendixIlincludesbackground informationonthissubject.DetailedguidancefordevelopingtheseSOPscan beobtainedbycontactingNPS:

NationalPharmaceuticalStockpile Program 4770BufordHighway
MailstopF -23
Atlanta,GA30341
(770)488 -7516

WorkerProtection

[DOJ/CDCPublicHealthPerformanceAssessment:5.1.1.11;7.2.10]

Onceaneventhasbeenidentified, it is imperative that responders do not become victims. Those responding to the incident and dealing with patients must be protected appropriately.

Anemployerisultimatelyresponsibleforthesafetyofhisorheremployees. Employersaccomplishthisdutybyenforcingworkerprotectionstandardsthat havebeenestablishedbythefederalOccupationalSafetyandHealth Administrationoritsstate -levelcounterpart.Healthdepartmentsshouldprovide post-eventtechnicalassistancetoensurethatthoserespondingtoanincident scene,dealingwithpotential lycontaminatedcasualties,orperformingany necessarydecontaminationdososafelyandinamannerthatprotectsthe public.Inorderforthistechnicalassistancetobeeffective,thehealth

departmentshouldliaisewithresponderorganizationsforpl anningaterrorism eventresponseaspartofitspre -eventplanning.

PatientDecontamination

[DOJ/CDCPublicHealthPerformanceAssessment:5.1.1.20;5.1.1.21;5.1.1.22; 5.1.1.23;8.2.5.5]

Emergencyplansshouldincorporateprovisionsforperforminge ffective decontamination, when necessary, after a terrorisme vent. Although it is unlikely that health department personnel will participate actively indecontamination, effective publiche alth planning and publiche alth consultation during the threat or incident could limit unnecessary decontamination substantially and ensure that needed decontamination actions are timely, sufficient, and effective.

MassCare

[DOJ/CDCPublicHealthPerformanceAssessment:5.1.1.17;7.1.3]

Althoughitisdoubtfulthat healthdepartmentswouldestablishormanagemass carefacilitiesdirectly,theyshouldplayaroleinprotectingthehealthandwell beingofdisplacedpeople. Healthdepartments also should work with the organizations responsible formass caretopreve ntinjury to and illness among displaced persons.

RecoveryPhaseActivities

Therecoveryphaseistheperiodfromtheendoftheresponsephaseuntil

- \$ Theaffectedareahasbeenreoccupiedwithouttheneedforprotective equipment,andthereisnosh ort-orlong -termhealthrisktohumans;and
- \$ Othertypicaloperationshaveresumedwithoutanyrestrictionsstemmingfrom theevent(5).

Althoughdefinedasactivitiesseparatefromandfollowingtheresponsephase, recoveryphaseactivitiesoftenwillb eginbeforetheresponsephaseends.Inaddition, actionstakenduringtheresponsephasecanbenefitorhinderrecoveryefforts.Health departments=primaryrecoveryresponsibilitiesincludethefollowing:

- \$ Studyingmorbidityandmortalityassociatedw iththeeventanddocumenting exposure.
- \$ Conductinglong -termmedicalfollow -upofexposedpeople.
- \$ Determiningwhenitissafetoreturntoacontaminatedarea.

Long-TermMedicalFollow -Up

Dependingontheagentusedandthemethodofdispersal, exposu retoagents could cause severeillness and deaths. Some affected people could sufferlong term health and medical difficulties involving a widerange of organ systems. Health departments should play an integral role in identifying people with exposure related illnesses and inworking with their physician stotrack their long the health of people exposed to biological or chemical agents could significantly improve our ability to provide early detection and intervention, thus improving treatment effectiveness.

MorbidityandMortalityStudy

Duringandaftermanynaturaldisasters, publichealth personnel canvasanaffected community and document the health and medical effects of the event on the population. These investigations include identifying disaster - related in juries and tracking endemic diseases to ensure that there is no outbreak.

Phealth departments should conduct similar morbidity and mortality studies after a terrorism event.

Post-terrorisminvestigationscouldevaluatet heeffectoftheagentreleased,the dose,andtheselecteddeliverysystemonthenumberandseverityofcasualties. Healthdepartmentsalsocouldinvestigatetheeffectivenessofpre -hospitaland hospitalresponsesandoutcomeeffectiveness,andtheyco uldexaminesuch secondaryissuesasevacuation -relatedtrafficaccidents.

P Alfanorganismisnotpresentintheareaandhasnotbeenintroducedafterthedis aster,thedisease posesnothreatregardlessofenvironmentalconditions. @From,PublicHealthConsequencesof Disasters,NojiE.ed.OxfordUniversityPress,NewYork,1997,p.93.

EnvironmentalIssues

[DOJ/CDCPublicHealthPerformanceAssessment:5.1.1.10;5.1.1.11.]

Healthdepartmentsareunlikelytobetheagenciesdirectlyresponsiblefordealing withtheenvironmentalconsequencesofabiologicalorchemical -relatedterrorism event; however, publichealthofficials have an important roletoplayin responding topost -incidentenvironmentalissues. Site characterization, environmental decontamination, and reentrylevels have publiche althramifications in which health departments should play an active advisory role.

SiteCharacterization

Thehealthdepartment=sroleinsitecharacterizationstemsfromits responsibilitytomonitorthepublic=slon g-termhealthandsafety. Specifically, healthdepartments should work with their state=senvironmental protection agency to determine the source or location of the illness or outbreak and develop as ampling plant ocharacterize the sites othat necessary follow-up of public healthdose investigations can be accomplished.

EnvironmentalDecontamination

Aswithpatientdecontamination,thetype,form,andamountofagentaffectthe decisionofwhetherornottodecontaminatetheenvironment. Thehealth department=sparticipationindiscussionsaboutthismatterwillensurethat, whennecessary,thedecontaminationissufficienttoensuresafereentryintothe contaminatedareaandthat,duringtheprocedure,personnelprotectthemselves andtheenvironment .

Clean-up/ReentryLevels

Healthdepartmentsshouldhelpdeterminewhetheranareaneedstobecleaned upbeforereentry. Whenclean -upisnecessary, the healthdepartment must ensure that reentry standards are in place to protect those returning to the ir homes. Healthdepartments also should determine any limitations on future land use or potential health concerns stemming from the event.

	ConsequenceManagementPlanningChecklist		
Cor	nmandandControl	Yes	No
6.	Haveyoudesignatedalocationforhea Ithdepartmentemergencyoperations?		
7.	Haveyoudesignatedthepublichealthemployeesresponsibleforstaffingthe state=sEmergencyOperationsCenter(EOC)?		
8.	Haveyoudescribedtherelationshipbetweenstateandlocalresponseeffortsand the federalresponseeffortsanddescribedprocedurestocoordinatetheeffortsof thedifferentlevelsofgovernmentduringanemergency?		
9.	Haveyoudeterminedunderwhatconditionstheplanwouldbeactivated?		
10.	Haveyouidentifiedlocalhealth -careresources(e.g.,beds,staffing,ventilators, vacanthospitalbuildings)?		
Cor	mmunications	Yes	No
1.	Haveyouexplainedhowinformationwillbedisseminatedaccuratelytofirst responders,thepublic,health -careproviders,anddecision -makers?		
2.	HaveyouincludedtheprotocolfornotifyingEOCsintheaffectedareatofacilitate communicationandcoordinationintheeventofaterrorismevent?		
3.	Haveyouidentifiedsufficientradiofrequenciesatthestateleveltofacilitate communicationbetweennecessaryorganizations?		
4.	Haveyoudeveloped, distributed, as necessary, and maintained a list of contact information for all critical local or state publichealth, medical, lawen forcement, and emergen cyman agement personnel?		
	a. Isthel istupdatedatleastmonthly?		
5.	Haveyoudescribedthestate=scapabilitytodisseminateinformationwithin2hours tolocalandstatehealth -careproviders,hospitals,clinics,laboratories,and pharmaciesaboutdiagnosisandpatientmanage mentforhigh -riskterrorismthreat agents?		
6.	Haveyoudescribedthehealthdepartment=scapabilitytoalertandcommunicate withitsfieldresponseunits?		
7.	Haveyouidentified, by title, the personand alternates authorized to communica te necessary publiche althin formation among the health department and emergency response agencies?		
8.	Haveyouidentified, by title, the personand alternates authorized to communicate necessary publichealth information between the health depar tment and other health agencies and organizations?		
9.	Haveyoucommunicatedinadvancewithemergencydepartmentdirectorsand hospitaladministratorsinthecommunitytofacilitatecoordinationofemergency activities?		

Со	nsequenceManag ementPlanningChecklist		
EventNotification		Yes	No
1.	 Haveyouidentified,bytitle,thepersonandalternatesresponsibleforthefollowing: a. Assessingthepublichealthconsequencesoftheemergencyincident? b. Accomplishinginteragencynotif ication? c. Notifyingthenewsmediaorthepublic?(Thesepeopleshouldbeidentifiedand contacttelephonenumbersincluded,evenifthoseresponsibleforpublic notificationornewsmediacoordinationarenotpublichealthofficials.) 		
2.	Haveyouspecifiedthenotificationprocessforkeypublichealthofficials?		
3.	Haveyouidentifiedtheabilitytoreceiveemergencynotificationandpublichealth informationona24 -hourbasis?		
PublicAlert		Yes	No
1.	Haveyo udescribedtheproceduresbywhichthepublicwillbenotifiedofapublic healthemergency?		
2.	Haveyouprovidedfornotificationofnon -Englishspeakingresidents?		
3.	Haveyoudescribedhowthepublicnotificationprocedureswillbete stedatleast annually?		
4.	Haveyoudescribedhowthepublicprotectiveactionmessageswillprovidethedetail necessarytoimplementtherecommendedprotectiveactions?		
Pu	blicEducationandEmergencyPublicInformation	Yes	No
1.	Hasthestateestablishedacomprehensivepubliceducationprogramonpublic healthmattersofinteresttothepopulationaswellastherisksassociatedwith biologicalorchemicalagents?Ifyes a. Doesthepubliceducationprogramprovidefortheedu cationofnon -English speakingresidents?		
	b. Haveproceduresbeenestablishedforrevisingthepubliceducationmaterials annuallyorwheneversignificantchangeswarrantrevision?		
	c. Haveproceduresbeenestablishedforprovidingthenewmediawithong oing informationaboutpublichealthinitiativesandpublichealth -relatedemergency preparednessefforts?		
	d. Havecriteriabeenestablishedforreleasinginformationtothepublicabout possibleterrorismthreats?		

	blicEducationandEmergencyPublicInformation	Yes	No
2.	Doesaprotocolexistfornotifyingorwarningthecommunityofpotentialhazards resultingfromabiologicalorchemicalrelease?lfyes		
	 a. Doesthisprotocolhaveprovisionsforinformingthepublicofwhathazardsto expect,whatprecautionstotake, andwhetherevacuationorshelter -in-placeis required? 		
	b. Hastheprotocolbeenreviewedwithmembersofthenewmedia?		
	 Doesthepublicinformationprogramincludeproceduresforreleasing emergencyinformationtonon -Englishspeakingresidentsina timelyand effectivemanner? 		
	d. Intheeventofapossibleterrorismincident,hasoneorganizationorperson beendesignatedtocoordinateorspeaktothenewsmedia?		
Со	nsequenceManagementPlanningChecklist		
Sp	ecialPopulations	Yes	No
1.	Doestheplanidentifythelocationsofspecialpopulationgroupsincludingjails, prisons, and other detention facilities as well as intermediate - and long - term care nursing facilities?		
Со	nsequenceManagementPlanningChec klist		
Me	entalHealth	Yes	No
1.	Haveyoudevelopedthecapabilitytoidentifyandobtainmentalhealthresources rapidlyinanemergencysituation?		
	rapidiyinanemergeneysituation:		
2.	Areproceduresinplacefornotifyingbothdisastervictimsandemergencyworkers oftheav ailabilityofmentalhealthservices?		
	Areproceduresinplacefornotifyingbothdisastervictimsandemergencyworkers		
3.	Areproceduresinplacefornotifyingbothdisastervictimsandemergencyworkers oftheav ailabilityofmentalhealthservices? Haveyoutailoredthementalhealthcounselingtotheageofthepersonseeking	Yes	No
3. M a	Areproceduresinplacefornotifyingbothdisastervictimsandemergencyworkers oftheav ailabilityofmentalhealthservices? Haveyoutailoredthementalhealthcounselingtotheageofthepersonseeking mentalhealthservices?	Yes	No
3. Ma 1.	Areproceduresinplacefornotifyingbothdisastervictimsandemergencyworkers oftheav ailabilityofmentalhealthservices? Haveyoutailoredthementalhealthcounselingtotheageofthepersonseeking mentalhealthservices? ISSFatalities	Yes	
1.	Areproceduresinplacefornotifyingbothdisastervictimsandemergencyworkers oftheav ailabilityofmentalhealthservices? Haveyoutailoredthementalhealthcounselingtotheageofthepersonseeking mentalhealthservices? ISSFatalities Haveyoudevelopedprotocolsfordealingwithalargenumberof casualties?		No No

PatientDecontam ination		Yes	No
1.	Haveyouidentifiedtheagenciesresponsibleforpatientdecontamination?		
2.	Haveyouestablishedprotocolsforidentifyingwhendecontaminationwillandwillnot berequired?		
3.	Haveyouspecifiedthepublichealth community=sroleinensuringthat decontaminationofpotentiallycontaminatedpeopleisbothtimelyandthorough?		
4.	Haveyouidentifiedthepublichealthcommunity=sroleintrainingmedicalpersonnel todecontaminateillorinjuredpeoplesafel ybeforetheirentryintoahospitalsetting?		
5.	Haveyouestablishedproceduresforeducatingandinformingthepublicof decontaminationproceduresintheeventofabiologicalorchemicalincident?		
6.	Haveyouworkedwithyourmedical examinerorcoronertodevelopprotocolsfor balancingthecompetinginterestsofevidencepreservationanddecontaminationof bodiesfortheimmediatefatalitiesofabiologicalorchemicalincident?		
	ConsequenceManagementPlanningChecklist		
MassCare		Yes	No
1.	Areyouawareofthelocation(s)ofidentifiedmasscarecentersinyourstate?		
2.	Haveyouworkedwithmasscareproviderstoensureproperdocumentationofall emergencyandnonemergencymedicalcareoccurringatmass carecenters?		
	ConsequenceManagementPlanningChecklist		
En	vironmentallssues	Yes	No
1.	Doyouhaveanagreementinplacewiththestateenvironmentalprotectionagency todevelopajointpost -incidentenvironmentalsamplingplan?		
2.	Haveyoudevelopedproceduresforensuringthatenvironmentalsampleswillmeet publichealthstudyneeds?		
3.	Haveyouestablishedprotocolsforidentifyingwhenenvironmentaldecontamination willandwillnotberequired?		
4.	Haveyo uspecifiedtheroleofthepublichealthcommunityinensuringthat environmentaldecontaminationisdoneinamannerthatprotectsworkerandpublic safety?		

AnnexA

BIOTERRORISM-SPECIFICPLANNINGGUIDANCE

Abiologicalagentinanaerosolizedstatepresentstheagent=sgreatestpotentialfor massdisseminationandlarge -scaleimpact.Insomecountries,biologicalagentshave beenengineeredforoptimald ispersalanddisseminationassmall -particleaerosols.In theformerSovietUnionin1979inSverdlosk(nowknownbyitspre -Sovietname Ekaterinburg),66peoplewerekilledwhenasmallamountofweaponized Bacillus anthraciswasreleasedaccidentallyfr omabioweaponsfactory(9).

Intheeventofabioterrorismattack,aneffectiveresponsewillrequirefocusing necessarypublichealthresourcesonmanagingtheoutbreakofaninfectiousdisease. Theseresourcesincludesurveillanceandepidemiologicex pertise;useofspecialized drugs,vaccines,andothermedicalsupplies;laboratorydiagnosisskills;andmedical recommendations,suchasprophylaxisguidelinesandvariousquarantine -related issues.

Definition

CDCdefinesbiologicalterrorismasanin tentionalreleaseofviruses, bacteria, ortheir toxinsforthepurposeofharmingorkillingAmericancitizens. Inadditionto aerosolization, food, water, orinsectsmust beconsidered aspotential vehicles of transmission for biological weapons. Publi chealth official smust be prepared to address varied biological agents, including pathogens that are rarely seen in the United States.

The highest -priority agents, Category AAgents, include organisms that pose a risk to national security because they

- \$ Canbeeasilydisseminatedortransmittedperson -to-person;
- \$ Causehighmortalityandsubsequentlyhaveamajorpublichealthimpact;
- \$ Mightcausepublicpanicandsocialdisruption; and
- \$ Requirespecialactionforpublichealthpreparedness.

CDC=slisto fcriticalbiologicalagentsincludesthefollowingCategoryAAgents:

CategoryAAgents

Variolamajor(smallpox)

Bacillusanthracis(anthrax)

Yersiniapestis (plague)

Clostridiumbotulinum toxin(botulism)

Francisellatularensis (tularemia)

Hemorrhagicfever(e.g., Ebola, Marburg, Lassaviruses)

CDCrecommendsthatotherlesscriticalagents(CategoryBandCAgents)also receiveattentionforbioterrorismpreparedness. These categories include newor Aemerging@pathogens. Asubset of CategoryBage ntsincludes pathogens that are foodborne or waterborne. CategoryBagents include those that

- \$ Aremoderatelyeasytodisseminate;
- \$ Causemoderatemorbidityandlowmortality;and
- \$ RequirespecificenhancementsofCDC=sdiagnosticcapacityandenhanced diseasesurveillance.

CategoryBAgents CategoryBAgents **FoodborneorWaterborne** Coxiellaburnetti (Qfever) Brucellaspecies(brucellosis) Salmonella species Burkholderia mallei (glanders) Shigelladysenteriae Alphaviruses Escherichiacoli O157:H7 Venezuelanencephalomyelitis Vibriocholerae easternandwesternequine Cryptosporidiumparvum encephalomyelitis Ricintoxinfrom Ricinuscom munis (castorbeans) Epsilontoxinof Clostridiumperfringens StaphylococcusenterotoxinB

CategoryC agentsincludeemergingpathogensthatcouldbeengineeredformass disseminationinthefuturebecauseoftheir

- \$ Availability;
- \$ Easeofproductionanddissemination; and
- \$ Potentialforhighmorbidityandmortalityandmajorhealthimpact.

CategoryCAgent s

Nipahvirus

Hantaviruses

Tickbornehemorrhagicfeverviruses

Tickborneencephalitisviruses

Yellowfevervirus

Multidrug-resistant Mycobacteriumtuberculosis

PreparednessforCategoryCagentsrequiresongoingresearchtoimprovedisease detection,di agnosis,treatment,andprevention.Knowinginadvancewhichnewly emergentpathogensterroristsmightemployisnotpossible;therefore,itisimperativeto linkbioterrorismpreparednesseffortswithongoingdiseasesurveillanceandoutbreak responseac tivitiesasdefinedinCDC=semerginginfectiousdiseasestrategy(10).

SurveillanceandEpidemiologicInvestigation

[DOJ/CDCPublicHealthPerformanceAssessment:1.1,2.2]

Topreparefully,healthdepartmentofficials should remember that a bioterror is mevent most likely would cause unusual cases of illness or death. An observant physician, veterinarian, laboratory technician, or surveillanced at a -entry clerk may be critical to early detection.

Thetwobroadgoalsofsurveillancerelatedtobiote rrorismpreparednessandresponse areearlydetectionofaneventandenhanceddiseasetrackinginthepopulationduring anemergencyresponse. Surveillancedatamustbelinkedtotheappropriate authoritieswhowillinvestigateunusualinstancesofhealt hserviceutilizationand unusualclustersofillnessordeaths. Surveillanceplanningshoulddetailhow

surveillanceinformationwillbeinvestigatedandhowthisinformationwillbelinkedto otheremergencyresponseofficialsatthecommunityandstate levels.

Afteranevent, aproperemergency response to an epidemic will require enhanced surveillance activity to manage the outbreak and to monitor progress. Planning may involve contingencies for augmenting existing surveillance activities and the surveillance work force, active reporting, and enhanced information management capacity. The state = sterrorism response plans hould include considerations for utilizing other surveillance systems, such as Epi-X and the National Electronic Disease Surveillance System.

LaboratoryDiagnosis

[DOJ/CDCPublicHealthPerformanceAssessment:2.3.1.1;2.3.2;8.2.5]

Laboratoryconfirmationofaspecimenwillbeextremelyimportantduringabioterrorism response. Plans should be in place to facilitate testing of the critical agents for biological preparedness. The Laboratory Response Network exists to facilitate sample collection, transport, testing, and training for laboratory readiness for bioterrorism. Clinical and public health laboratories in the network are identified by increasing levels of sophistication ranging from Level Athrough Level D.

LaboratoryCapacityforBiologicalAgents

LevelALaboratory

LevelAlaboratoriesarepublichealthandhospitallaboratorieswithacertified biologicalsafety cabinetasaminimum. Theselaboratorieshavetheabilitytorule outspecificagentsandtoforwardorganismsorspecimenstohigher -level laboratoriesforfurthertesting.

LevelBLaboratory(CoreCapacity)

LevelBlaboratoriesare stateandlocalp ublichealthlaboratorieswithBiosafety Level(BSL)2facilitiesthatincorporateBSL -3practicesandmaintaintheproficiency toadequatelyprocessenvironmentalsamples,ruleinspecificagents,andperform confirmatoryandantibioticsusceptibilitytes ting.Theselaboratoriescanidentify

appropriatehigher -levellaboratoriesandcanforwardsamplestothemforfurther testing.

LevelCLaboratory(AdvancedCapacity)

LevelCLaboratoriesareBSL -3facilitieswiththecapabilitytoperformnucleicac amplification,moleculartyping,andtoxicitytesting.LevelClaboratoriescan conductalltestsperformedinLevelBlaboratoriesandcanprovidesurgecapacity, whenneeded.Additionally,theselaboratorieswillevaluatereagentsandteststo facilitatetheir transferforuseinLevelBlaboratories.

id

LevelDLaboratory

LevelDLaboratoriescanconductalltestsperformedinLevelsA,B,andC laboratories.Theycanvalidatenewassays,detectgeneticrecombinants,provide specializedreagents,se curelybankisolates,andpossessBSL -3andBSL -4 biocontainmentfacilities.Forbioterrorismeventsaffectingcivilianpopulations,CDC istheLevelDlaboratory.

Shipping

Allsuspectedorconfirmedbiologicalthreatagentsshouldbeshippedinaccorda nce withtheproceduresforgeneralpackagingrequirementsfortransportofbiological agentsandclinicalspecimensassetforthinCDC=sOfficeofHealthandSafety (OHS)publication, *BiosafetyinMicrobiologicalandBiomedicalLaboratories*, 4 th Edition,AppendixC.ThisinformationmaybeaccessedthroughtheOHSWebsite atURL: www.cdc.gov/od/ohs.

Beforesendingsamplesorifyouhavequestionsaboutorproblemswithsamplesor sampleshipment,callDr.Meyerat(404)639 -0075/Pager(800)314 -1092.

ShipsamplestoCDCatthisaddress:

CDCDASH ATTN:Dr.RichardMeyer 1600CliftonRoad Atlanta,GA30333

MedicalManagement

[DOJ/CDCPublicHealthPerformanceAssessment:7.2]

Thekeyissuesassociatedwithmedicalmanagementofbioterrorismvict imswillbethe provisionofpreventiveservicesandthemedicaltreatmentofpatients. Preventive servicesinvolvetheprovisionofantibiotics, vaccines, or other medications to prevent disease and deathin exposed victims.

Planswillneedtopredict supplementarystaffingneedsandidentifyauxiliarystaff, determineequipmentandresourcerequirements, and identifytechnical assistance that may be required. In addition, provisions for properly documenting the treatment of victims should be specifie d. The proper application of mass prophylaxis or immunization will involve complex coordination with other emergency response authorities and a vigorous campaignto inform the public.

Policyshouldbedevelopedtoaddresspriorityemergencyprophylaxis forAessential@ emergencypersonnel(11).Aspecificlistoftheemergencypersonnelshouldbe developedinadvance.Ifmedicationshortagesdevelopduringtheearlyphasesofthe incident,themedicationissuancemayneedtobelimitedtoa1 -or2 -daycourseof treatment,pendingidentificationoftheagent.

Fortheat -riskpopulation,massimmunizationmaybeneeded. Currently, thisoption primarily relatestosmall poxplanning. Recommendations for immunization balance scientificevidence of ben efits, costs, and risks against the risk posed by the biological agent. Personnel administering the immunizations would require proper training. Stagingsites should be planned in advance for distribution and delivery of vaccines. Planning for massimmu nization should involve linkage with public health departments at the state and local levels.

RestrictionofMovement

[DOJ/CDCPublicHealthPerformanceAssessment:6.2]

StateandLocalQuarantine

Currentplanningforrespondingtoabioterrorism -initiatedoutbreakshouldinclude anevaluationofthelegalauthoritiesthatformthebasisoftraditionalemergency

publichealthmeasures, such as quarantine and the mandatory administration of medications or vaccines. Although such measures were an eccessary and common component of infectious disease control in the United States at the turn of the 20th century, their use all but vanished 50 years later because the incidence of infectious disease declined due to better hygiene, antibiotics, and vaccines.

Surveysofthelawsthatauthorizestateuseofemergencypublichealthmeasures, includingoneconductedin1988bytheInstituteofMedicine,suggestthattheyare antiquatedandvarysignificantlyfromstatetostate(12). Withlimitedexceptions, publichealthofficershavenotbeencalledupontoutilizeemergencypublichealth measuresinaninfectiousdiseasesettingsincecombatingpoliointhe1950s. Therefore, mostlawsthatauthorizesuchmeasureshavenotbeentestedagainst modernlegalc oncerns. Couplethiswitharecentworldwideresurgenceinthe incidenceofinfectiousdisease, and the needfor appropriate emergencypublic healthmeasuresbecomesobvious.

Respondingtoabioterrorismincidentorlarge -scaleinfectiousdiseaseoutbrea k mayrequiretheuseofavarietyofemergencypublichealthmeasures. Thesemay includequarantine, isolation, closingpublicplaces, seizingproperty, mandatory vaccination, travelrestrictions, and disposal of the dead. Because the most critical publichealthresponses probably will be those taken immediately at the state and local levels, health officials and their lawyers should review the statutes, regulations, and ordinances that authorize these emergency publicheal thmeasures and develople gally sound procedures for executing them.

FederalQuarantine

TheSecretaryoftheDepartmentofHealthandHumanServiceswasgrantedthe authoritytoissueregulationsnecessarytopreventtheintroduction,transmission,or spreadofcommunicablediseasesf romforeigncountriesintotheUnitedStatesand fromonestateorpossessionintoanother(13).Theseregulations,whichare administeredbyCDC,arepromulgatedseparatelyaccordingtotheirgeographic applicability;onesetgovernsmattersofinterstat ecommerce,andtheothergoverns arrivalsintotheUnitedStates.

RestrictionofPeopleMovingInterstate

Theregulationsthatauthorizetherestrictionofpeoplemovinginterstateare foundin42CFRPart70. These regulations contain a number of per mitting and reporting requirements for people who travel from one state or possession to another, and they authorize the apprehension, detention, or conditional release

ofsuchpeopletopreventthespreadofspecifiedcommunicablediseases.In addition, theseregulationsauthorizefederalactionintheeventthatmeasures takenbyhealthauthoritiesofanystateorpossessionareinsufficienttoprevent theinterstatespreadofcommunicablediseases.CDC'sregulatoryauthorityis limitedtorestrictingt hemovementofpeople.TheU.S.FoodandDrug Administrationretainssimilarinterstateregulatoryauthoritywithrespectto animalsandotherproductsthatmaytransmitorspreadhumandisease.

ForeignQuarantineofPersons,Carriers,Animals,andArtic les

CDC'sregulatoryauthoritywithrespecttoforeignarrivalsisfoundin42CFRPart 71. These regulations authorize CDC to detain, isolate, or place under surveillance, peoplear riving in the United States who are reasonably believed to be infected withorto have been exposed to certain communicable diseases, provided that such action is considered necessary to prevent the introduction, transmission, or spread of those diseases. The current list of diseases for which such actions are authorized includes cholera or suspected cholera, diphtheria, infectious tuber culosis, plague, suspected small pox, yellow fever, and suspected viral hemorrhagic fevers -- Lassa, Marburg, Ebola, Congo - Crimean [sic], and others not yet isolated or named (14).

Theprovisions of 42 CFRP art 71 also authorize certain measures with respect to carriers, animals, and articles arriving in the United States to the extent they transmit or spread human disease. For example, carriers arriving in U.S. ports must report certain occurren ceso fillness or death aboard the carrier and are subject to inspection; dogs, cats, turtles, and nonhuman primates are subject to inspection and quarantine requirements; and imported etiologicagents, hosts, and vectors of human disease must be accompani ed by a CDC - is sued import permit.

FederalQuarantineAdministration

Theauthorityforcarryingouttheprovisionsof42CFRParts70and71restswith theDirectorofCDC.TheDivisionofQuarantine,NationalCenterforInfectious Diseases,administers bothsetsofCDCregulationsonbehalfoftheagency.CDC isreviewingtheregulationscurrentlyandintendstoupdatethemtoreflectpresent dayconcerns,includingpotentialbioterrorism.

ConsequenceManagement

Responseactivities that should be covered in Chapter 5. The following supplementary guidance pertains specifically to a biological incident.

WorkerProtection

Workerprotectioninresponsetobiologicalterrorismshouldbedeterminedbythe typeofhazard.CDCanticipatesthatworkerexposurestobiologicalterrorismwill likelyfallintotwoscenarios:anoccupationalcontactwithaninfectedpatientduring abioterrorism -relatedoutbreak;orapotentialoccupationalexposureinvolving recoveryofabiologicaldisseminationdevice.

Occupationalcontactwithaninfectedpatientduringabioterrorism -related outbreak:

Priortorecognitionandduringarecognizeddiseaseoutbreakcausedbyanact ofbiologicalterrorism,workersmayhaveconta ctwithpatientswhoareinfected bythebiologicalagent.Mostagentsofbioterrorismarenottransmittedfrom person-to-person,however,foragentssuchassmallpoxorpneumonicplague,a workerisatriskofacquiringinfectionfromthepatient.Wor kerspotentiallyat riskduetooccupationalexposureinclude:

- \$ traditionalfirstresponders(police,fire,andEMS)whotransportillpatients tomedicalfacilities;
- \$ healthcareworkerswhocareforpatientsinhospitals,residentialfacilities, out-patientsettings,athome,orelsewhere;
- \$ laboratorypersonnelhandlingclinicalspecimens;and
- \$ healthdepartmentstaffwhovisitpatientsinoroutofhealthcarefacilities whileconductingoutbreakassessmentorcontrolmeasures.

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Toprotectworkerswhe nthepresenceornatureofabioterrorismagentisnot known, allworkers should adhere to Standard Precautions (15) whenever they have contact with broken or moist skin, blood, or bodyfluids. This includes the

useofdisposablenon -sterilegloveswith hand -washingimmediatelyafter removal; and the useofadisposable gown or apron, and a faceshield if any splashing is anticipated. Protective gear is changed between patient stoprevent the worker from transmitting in fection from patient -to-patient. Once identified, additional precautions based on the agent = sspecific mode of transmission are applied, e.g., air borne, dropletor contact transmission. (15,16) Supervisors should contact the local health department for additional instructions for worker vaccination, prophylacticantibiotic therapy, or other measures that may be appropriate for a given disease. use of disposable non -sterile gloves with and washing immediately after remoaval; and at heuse of a disposable gown or a pron, and a faceshield if any splashing is anticipated.

Firstrespondersandothersinvolvedinout -of-hospitalpatienttransportwillbein closerproximitytothepatientduringtransport. Theyshouldcomplywiththe infectioncontrolguidelinesdescribedaboveandcantaketh efollowingadditional precautions:

- \$ Runtheambulanceventilationsystemonitshighestsettingusingoutsideair circulation,whichwillmaximizeairchangesinthevehicle(17);
- Fordiseaseswhicharetransmittedbyrespiratorytransmission(dropletor aerosol),thepatientshouldwearasurgicalmask(15),disposablerespirator (onewithoutanexhalationvalve)or,ifneededforrespiratorysupport,an oxygenmaskthatdoesnotexhausttoambientair;
- \$ Responderstransportpatientswithdifferentdisea sesrequiringdifferent levelsofworkerrespiratoryprotection.ltmaysimplifyinventoryselectionto standardizeonthemoreprotectiveN95 -classrespirator.

Potentialoccupationalexposureinvolvingrecoveryofabiological disseminationdevice:

A determinedbiologicalterroristprobablywilltrytoavoiddiscoverywhile disseminatingtheinfectiousagent. This will maximize the disease impact of the act. Nonetheless, it is possible that as uspected dissemination device may be discovered before or afterit releases its contents. The worker risk involved in recovering this device and, if possible, mitigating its threat will determine the appropriates a fety measures and personal protective strategies. For incidents of relatively low potential hazad, such as envelopes claimed to be filled with

Aanthraxspores, @guidelinesforcontainmentandidentificationexist(18). Otherincidentsmayneedtobeapproachedwithadditionalconcernforexposure tothecontentsandforotherhazards. Theseotherh azardsincludeapossible "secondarydevice" explosive, timedtodetonateduring the response to the first eventandinjureresponders (19). On -scene commanders must evaluate the potential threatinconsultation with local health and lawen forcement resour ces and select appropriates trategies for worker protection, including personal protective equipment.

PatientDecontamination

Whendeterminingtheneedfordecontaminationinabiologicalsetting,balancethe riskthatdecontaminationposestothepatien tagainstthebenefitsitcouldprovide. Unlessgrosscontaminationisevident,decontaminationisunwarranted.Instead, beginbyremovingclothesandplacingtheminaplasticbagpendingagent identification. Takingashowerwithsoapandwatershou ldsufficetoprevent illness(18). Wheregrosscontaminationisfound,onlythoseareasoftheskinthat havebeengrosslycontaminatedshouldbedecontaminated. Whentheinvolved agentisunknownandcouldbeeitherachemicalagentorbiologicalagent ,follow patientdecontaminationproceduresforchemicalagents.

MassCare

Whereacontagious biological agent has been dispersed, special caremust be taken to prevent the mass carefacility from becoming a focal point for further spread of the disease. Effective medical screening of incoming people, rapid identification of ill people and their prompt removal from the mass carefacility, and provision of antibiotic stoothers in the facility (if appropriate) will minimize the spread of any communicable disease.

EnvironmentalIssues

Manybiological agents live for only as hort time outside the human body. These agents are sensitive to environmental conditions, including heat and light, which makes biode contamination unnecessary as a rule. Spore forming agents (e.g. anthrax) are more persistent; however, these biological agents occurnaturally throughout much of the United States without causing out breaks. Where these

removeanybiologicalcontamination.

^qFormostbiologicalagents,simplelaunderingwillbesufficientto

agentsoccurnaturally, backgroundlevels ar erarely known; thus, sampling is of livalue. In general, environmental is sue sare not critical in a biological event.

ttle

Bic	Bioterrorism-SpecificPlanningChecklist		
RestrictionofMovement		Yes	No
1.	Haveyouidentifiedstateorlocalpublichealthstatutes,ordinances,orregulations that restrict movements of people who may have been exposed to a communicable disease?		
2.	Haveyoudeterminedthelegalsufficiencyofsuchstatute,ordinances,or regulations? a. Ifnoauthorityexists,haveyoudevelopedplansforidentifyingand enacting necessaryquarantineprovisions?		
3.	Haveyoudevelopedplanstoimplementexistingprovisionsthatrestrictmovements ofpeoplewhomayhavebeenexposedtoacommunicabledisease? a. Dotheseplansincludeprovisionsforcredential ingpeopleapprovedfor movementwithinthequarantinearea?		
4.	Haveyoudevelopedamechanismtoreviewtheeffectivenessoftheseprovisions andrevisetheminatimelymannertomeetchangingneeds?		
5.	Haveyoupreparedaplantou tilizethefederalregulationsifstateorlocalpublic healthstatutes,ordinances,orregulationsthatrestrictmovementsofpeopleare inadequateorabsent?		
6.	Haveyoudevelopedapartnershipwithborderingstatestoenforcequarantine regulationsifanoutbreakofacommunicablediseasethreatenstospreadacross stateborders?		

AnnexB

CHEMICAL-SPECIFICPLANNINGGUIDANCE

ThissectionofthePlanningGuidancediscussesincidentsinvolvingchemicalterrorism. Hazardouschemicalrel easesandsiteexposurearetwoimportantissuesdiscussedas wellassurveillance,laboratorydiagnosis,medicalmanagement,andConsequence Management.

Duringthe1995sarinnerveagentattackontheTokyosubwaysystem,roughly3,800 peoplesoughttr eatment,nearly1,000werehospitalizedforafewhourstoafewdays, and12died(20).In1984,theaccidentalreleaseof40tonsofmethylisocyanatefrom apesticidefactoryinBhopal,India,injuredhundredsofthousandsofpeopleandkilled about4, 000. Thus,respiratoryinhalationofvolatilechemicalscanpresentamajor dangerofmasscasualties.

Manyofthechemicalsofconcernforterrorismpreparednesscanbearrangedunder thefollowingcategories:

- \$ Militaryagents
- \$ Pulmonary(lungdamagi ng)agents
- \$ Irritants
- \$ Vomitingagents
- \$ Incapacitatingagents

Duetothenumberofchemicalsofpossibleconcern, it is impossible to provide a comprehensive listinado cumento fithis size.

Themaindifferences between industrial chemical accidents and chemical terrorism may be intentand magnitude. Efforts to enhance hazardous materials (HAZMAT) preparedness and response activities for chemical spills will better prepare communities to respond to terrorisme vents. Likewise, chemical terrorism preparedne ssactivities should collaterally benefit a community = sability to effectively respond to HAZMAT emergencies (21).

^fBhopalDisaster.TradeandEnvironmentDatabase(TED)Projects,CaseStudy#233,availableatURL: http://www.american.edu/projects/mandala/TED/BHOPAL.HTM.

SurveillanceandEpidemiologicInvestigation

[DOJ/CDCPublicHealthPerformanceAssessment:1.1;2.2]

Achemicalterrorismeventisl ikelytobediscoveredinoneoftwoways:thelocal discoveryoftheenvironmentalreleaseorexposureincidentorthediagnosisofthe resultantpatientcases. Emergencyrespondersmayprovidecriticalon -scene assessmentsandpatientexaminationsthat constituteaninformalpassivesurveillance system. These nation wide monitors could report potential events in a fashion timely enough to allow for rapid intervention (21).

Inachemicalevent, surveillance is most useful for tracking exposed individuals for long termphysiologic difficulties, chronic illnesses, cancers, etc. Effective post surveillance will require the establishment of a registry or database that includes the names and contact information for exposed people. To be most effective, this registry should include at least the following information:

- \$ Name
- \$ Addressandtelephonenumber
- \$ Age
- \$ Whereregistrantwaslocatedduringtheevent
- \$ Whereregistrantcanbecontacted(ifotherthanhome)
- \$ Symptoms(ifany)andtimeofonset
- \$ Medicaltreatmentreceived(ifinformationisavailable)

Manypresumethatanexplosion, used to disperse the chemical, will precipitate a chemical terrorisme vent. Between the resulting fire and the rapidon set of symptoms, chemical incidents also are assumed to be overt, easily identifiable events. In conducting surveillance activities, however, it is important not to discount immediately chemicals as the source of an unexplained syndrome. Contaminating awater or food supply with a hazardous chemical could sicken many people, and prematurely eliminating chemicals as a potential causative agent could delay effective treatment.

sedindividualsfromthosesuffering

^sLocationattimeofincidentisimportanttoseparateexpo psychogenicillnessandthe Aworriedwell. @

LaboratoryDiagnosis

[DOJ/CDCPublicHealthPerformanceAssessment:2.3.1.2;2.3.2;8.2.5]

CDCdoesnotconducttestsofenvironm entalsamplesforchemicals. Thestatemust establishlinkagestoappropriateauthoritiesatthelocal, state, and federallevelsto ensure its ability to take and testenvironmentalsamples when required to characterize the site. CDC does analyze blood, serum, and urine specimens for breakdown products to quantify human exposure to selected chemicals.

Aswiththebiological agents, CDC focuses its preparedness efforts on prioritized hazardous chemicals. These priority agents include the following:

- \$ Militarynerveagents
- \$ Sulfurandnitrogenmustards
- \$ Lewisites
- \$ Ricin
- **Saxitoxin**
- \$ **BZ**
- \$ Hydrogencyanide
- \$ Cyanogenchloride

WhereasCDCishelpingstatesdeveloptheirownbiologicallaboratorycapacities,CDC retainsthecapacitytoconductbiomonitoringforchemi calsmainlyatthefederallevel. Moreover,CDCdoesnotadvocatethatstatelaboratoriestestpotentialchemical terrorismsamplesbeforeshippingthemtoCDC.

Moststatepublichealthchemicallaboratoriesdonotpossessnecessaryequipmentor expertisetoruleoutthepresenceofaLevel4biologicalagentthatpotentiallycouldbe presentinahumansamplecollectedfromasuspectedvictimofachemical attack. Statelaboratoriesalsodonothavetheirradiatorsnecessarytoneutralizethehardiest ofthebiologicalagents,iftheywerepresent.Thus,safetydictatesthatbiological samplesfromchemicallycontaminatedvictimsbesentdirectlytoCDCforanalysis.

TheinitialsamplessenttoCDCforanalysisfromaknownorsuspectedchemicaleve areautomaticallyirradiatedtoneutralizeanyoffendingbiologicalagent.Aftertheinitial samplesareirradiated,selectedfollow -upsamplesaretestedbyPolymeraseChain Reaction(PCR)andimmunoassaytoruleoutthepresenceofaLevel4biologic al

nt

agent.AftersamplesareirradiatedorclearedbyPCR/immunoassay,thenandonly then,theyaresenttoCDC=schemicallaboratoryforfurthertesting.

Tocoverthepossibilitythatsurgecapacityisneeded,CDCfundedfivepartnerstate publichealt hlaboratoriestobuythenecessaryequipmenttoconductthesample analysesconsistentwithCDC=ssafetyprotocols.Withtheinstruments,thestatescan identifyexposuresintherangeofpartspertrilliontopartsperquintillion,depending uponwhatc hemicalissuspected.

SpecimenCollection

Itisimportantthatthefirst30samplesfromthemostcontaminated(exposed) peoplebesenttoCDCasrapidlyaspossible. Expeditious shipment of the first samples will allowCDC laboratory personnel to help identify the causative agent and also will speed the determination of whether or not a second chemical agent is involved in the exposure. After the first 30 samples are collected and shipped, CDC = sobjective is that as many samples as possible be collected (either directly by CDC laboratory personnel who have been deployed to the site or by state or local medical personnel).

SamplessenttoCDCmustnotcontainpersonalidentifiers,buttheymusthave uniqueidentifiers.SamplescollectedforCDCchemi calanalysisshouldconformto thefollowing:

- \$ Forurinesamples:atleast20mL.Usescrew -cappedplasticcontainer.
- \$ Forserumsamples:theyieldfromtwo10 -mLno -anticoagulant(U.S.color codered -top)tubesinplasticscrew -cappedvials. Donotuse SSTtubes .
- Forwholeblood:one5 -mLor7 -mLNaOxalate/NaFanticoagulatedtube(U.S. colorcodegray -top)orone5 -mLor7 -mLheparinizedtube(U.S.colorcodegreen-top) unopened, plusanemptytubetocheckasablank.

Shipping

Securespecimensin cardboardvialstorageboxesorStyrofoam -moldedtube holdersandencloseinlarge,zipperlocking,plasticbags.PlaceinaStyrofoam -insulatedshipper,andsurroundwithabsorbentmaterialforcushioning.Ship refrigeratedusingAcool -packs,@notdry ice.Encloseashippinglistwithpertinent informationaboutspecimensandthenameandtelephonenumberofthe appropriatecontactperson.Eachsamplecontainertopmustbewrappedwith waterproof,tamper -proofsecuritytape(availablefromFBI/Police supplystores).

AllsamplessenttoCDCforchemicalanalysisshouldbeshippedtothisaddress:

CDCDASH ATTN:Dr.RichardMeyer 1600CliftonRoad Atlanta,GA30333

Ifyouhavequestionsaboutorproblemswithsamplesorsampleshipment,contact thefo llowingCDCpersonnel:

CharlesBuxton
ChemicalTerrorismRapidResponse
TeamLeader
DivisionofLaboratorySciences
(770)488 -4160

ElaineGunter,Chief NHANESLaboratory (770)488 -7938

DivisionofLaboratorySciences
NationalCenterforEnvironmentalHe alth
CDC
(770)488 -7950

Inanemergency, chemical laboratory staff can be reached by calling CDC = s emergencyresponsenumber:(770)488 -7100.

MedicalManagement

[DOJ/CDCPublicHealthPerformanceAssessment:7.2]

Thetreatmentofexposedpeoplebyclin icalsyndromeratherthanspecificchemical moreusefulforpublichealthandemergencymedicalresponseplanning.Publichealth agencies and first responders may render the most aggressive, timely, and clinically relevanttreatmentpossiblebyusingt reatmentmodalitiesbasedonsyndromic categories(e.g.,burnsandtrauma,respiratoryfailure,cardiovascularshock,and neurologicaltoxicity). Exhibit3containsalistofemergencymedicalconditions and needsassociatedwithchemicalexposures.

is

CDC hasdevelopedEmergencyRoomProceduresinChemicalHazardEmergencies: AJobAid, which provides information on various chemical spertaining to terrorism. ThisJobAidisavailableontheCDCWebsiteatURL: www.cdc.gov/nceh/demil/articles/initialtreat.htm.

Inaddition,theAgencyforToxicSubstancesandDiseaseRegistry(ATSDR)developed ManagingHazardousMaterialsIncidents,VolumeIII:MedicalManagementGuidelines forAcuteChemicalExposures. ^tATSDRdevelopedtheseguidelinestoaidemergen Cy departmentphysiciansandotheremergencyhealth -careprofessionalswhomanage acuteexposuresresultingfromchemicalincidents. The guidelines are intended to aid health-careprofessionalsinvolvedinemergencyresponsetodecontaminatepatients effectively, protect themselves and others from contamination, communicate with other involvedpersonnel, efficiently transport patients to a medical facility, and provide competentmedicalevaluation and treatment to expose dpersons.

^t Seealso, Managing Hazardous Materials Incidents, Volume I -EmergencyMedicalServices:APlanning GuidefortheManagementofContaminatedPatientsandManagingHazardous MaterialsIncidents, Volume II - Hospital Emergency Departments: A Planning Guideforthe Management of Contaminated Patients. Allthreevolumes are available on the Webat URL: http://www.atsdr.cdc.gov.

Exhibit3

EmergencyMedi calConditionsandNeeds AssociatedWithChemicalExposures(21)

SyndromeandCausativeAgents	MedicalTherapeuticNeeds	
BurnsandTrauma Corrosives,vesicants,explosives, oxidants,incendiaries,radiologicals	Intravenousfluidandsupplies Painmedications Pulmonaryproducts Splintsandbandages	
RespiratoryFailure Corrosives,militaryagents, explosives,oxidants,incendiaries, asphyxiants,irritants, pharmaceuticals,metals	Pulmonaryproducts Ventilatorsandsupplies Antidotes(whenav ailable) Tranquilizingmedications	
CardiovascularShock Militaryagents,pesticides asphyxiants,pharmaceuticals	Intravenousfluidandsupplies Cardiovascularproducts Antidotes(whenavailable)	
NeurologicalToxicity Militaryagents,pesticides, pharmaceuticals,radiologicals	Antidotes(whenavailable)	

ConsequenceManagement

Responseactivities that should be consistent irrespective of the agentused are covered in Chapter 5. The following is supplementary guidance that pertains specifically to a chemical incident.

WorkerProtection

WorkerProtectionstandardsforchemicalsarecontainedin29CFR1910.120(q) and29CFR1910.134. When responders deal with a known or suspect chemically contaminated area, they should rely on personal protect ive equipmentand respiratory protections tandards described in the code to help ensure their safety. Health departments should work with responders to ensure that they are properly protected in the field.

Recenteventsalsohavedemonstratedtheriskpo sedtoemergencydepartment personnelwhentreatingchemicallycontaminatedpatients(22). Thus, health departmentpersonnelshouldhelpensurethattheirhealth -carecounterpartsare adequatelypreparedtotreatchemicallycontaminatedpeopleandavoidb ecoming victimsduetotoxicityfromsecondarycontamination. Strategies include having appropriate resources to decontaminate patients, and utilizing appropriate personal protective equipment while decontaminating patients or treating patients who requir e carebefore decontamination (22).

PatientDecontamination

Liquidoraerosolizedchemicalscanposeadermalthreatandmustberemovedas rapidlyaspossible. Fortheseexposures Bvaporexposures donotrequire decontamination Bitisessential toremov ethe exposed person=sclothing and rapidly decontaminate by using copious amounts of soap and water. Decontamination solution may be used, if available and appropriate.

MassCare

Secondarycontaminationfromchemicalsmaybepossiblebutisunlikely when grosscontaminationisabsent. Effectivescreeningofthosearrivingatthemass carefacilitytoensurethatcontaminatedpeopleareidentifiedandeffectively decontaminatedbeforeenteringshouldbesufficienttopreventcontaminationofthe facilityorthosetemporarilyresidinginit. Caremustbetakentoisolatebodilyfluids

(includingvomitus)topreventsecondaryillnessfromoffgassingaftertheingestion of some chemicals.

MentalHealth

Theexposuretohazardouschemicalscanleadto psychosocialresponsesdifferent from, and insome instances greater than, other emergency situations. "The inability toquantify exposure along with concerns about developing illnesses well into the future resultins pecial feelings of vulnerability and loss of control. The unique mental health concerns caused by a chemical event must be considered during the planning process.

Environmental Decontamination

Theneedtoperformenvironmentaldecontaminationforchemicalsdependsonthe chemicalinvolved. Persistentchemicalscanremainintheenvironmentforlong periodsandmust(iffoundinunsafelevels)beactivelyremovedthrough decontamination. Otherchemicals are more volatile and will evaporate without outside intervention, thus eliminating the needfordecontamination.

^u AgencyforToxicSubstancesandDiseaseRegis try.ReportoftheExpertPanelWorkshoponthe PsychologicalResponsestoHazardousSubstances.AvailableontheWebatURL: http://www.atsdr.cdc.gov/HEC/PRHS.

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AppendixI

BASICEMERGENCYPREPAREDNESSPLANNING

TheEmergencyOperationsPlanningProcess v

[DOJ/CDCPublicHealthPerformanceAssessment:5.1]

Normally, a state = semer gencyman agementagency is responsible for leading the overall effort to develop an all -hazard EOP. This appendix offers suggestions to health departments for developing a health -related EOP, which should be incorporated into or annexed to the state = sall -hazard EOP.

Basicemergencypreparednessplanningguidanceisprovidedfirstbecause developmentofahealth -relatedEOPwillbetheconceptualframeworkuponwhichthe terrorismplanisbuilt.Exhibit4containsaflowchart,whichlistsquestionsto help healthdepartmentsdeterminethebestplacetobegintheirplanningefforts.

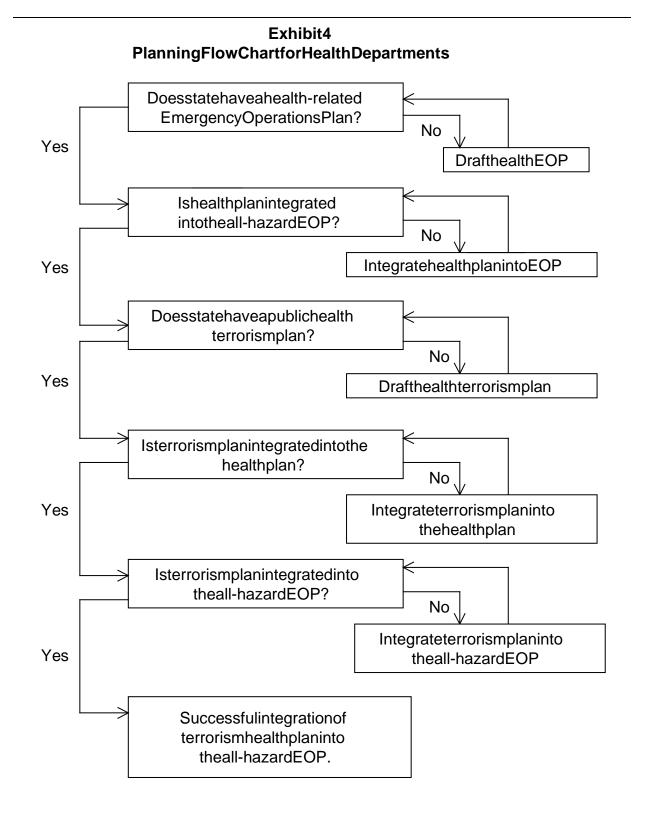
Obviously,theplanscanbedevelopedinanyorder.Infact,wherethehealth departmenthasnoemergencyresponseplan,itmaybebesttodevelopaterrorism responsepl anwhileundertakingtheoverallemergencyplanningeffort.Regardlessof theorderinwhichtheplansarewritten,thehealthdepartmentmustensurethatits terrorismpreparednessandresponseinitiativesarewellintegratedintothestate=s overalleme rgencymanagementandresponsesystems.

Principles

Developingaplanforprotectingthelivesofastate=scitizensmayseemadaunting task,butitneednotbeifthefollowingprinciplesareapplied.

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VMuchoftheinformationcontainedinAppendixIhasbeenadaptedfromFEMA =sStateandLoc alGuide -HazardEmergencyOperationsPlanning,September1996.SLG101provides (SLG)101:GuideforAll extensiveguidanceondevelopinggeneralEOPs, as well as guidanceon developing hazard -specific attachmentsorannexestotheEOP.Informationadap tedfromSLG101hasbeenincludedheretohelp ensurethatthehealthdepartment =semergencyplanswillbeconsistentwithexistingstateemergency plans, easing incorporation and integration of the healthresponse into the state =sall -hazardsresponse capability. Toobtain a copy of SLG101, contact FEMA =spublicationswarehouseat(800)480 -2520orby mailatP.O.Box2012,Jessup,MD20794 -2012. An electronic copy of SLG101 can be found at URL: http://www.fema.gov/pte/gaheop.htm.



UseAvailableGuidan ceandTrainingMaterials

Thestateemergencymanagementcommunityisavaluableresourceforhealth departmentplanners. Statestypicallypublishtheirownemergencyplanning guides, conductworkshopsandtrainingcourses, and assign their planners to work withouther planners. In addition, FEMA supports state training efforts through its Emergency Management Institute and offers planning courses. FEMA also publishes avariety of planning -related documents. Please refer to the Bibliography at the end of this Planning Guidance for a list of some of the reference materials that may be of use in health -related emergency planning.

InstateswithEOPsorothercontingencyplans,healthdepartmentscanuse theseplanstobeginorganizingtheirownplanning activities. Existingplans directplanningcoordinatorstoapplicableauthorities, indicateperceptions of localizedorstatewiderisk, identifymembersofthestate=semergencyresponse organizations, and identifymutual aidagreements with other jurisd ictions. Planningcoordinators should review existing EOPs for questionable assumptions, in accuracies, inconsistencies, omissions, and vagueness, especially in those areas under which healthdepartments are assigned response duties.

Inaddition, the plan ning coordinators hould determine where the health response fits into the overallemer gency prepared ness and response efforts. This assessment will minimize gaps and overlaps and lead to the desired seamless integration of public health into the overalle mergency response effort. Critiques of recent emergency operations and exercises in the state will help the planning coordinator develop as ense of what needs to be done.

BuildthePlanfromExistingPublicHealthExpertise

Traditionally, healthdepartm entshavethelegalresponsibility to identify public healthconcerns and control disease outbreaks. Although potentially expanded, these duties will form the foundation for a health department = srole in emergency prepared nessandresponse.

^wIndependentstudy planningcoursesareavailableonFEMA =sWebsite(<u>www.fema.gov</u>)under APreparedness.@

Theexpert iseuseddailybyhealthdepartmentswillprovepivotalinmaking decisionsaboutpublichealthandsafetyduringanaturalortechnologic(man made)emergencywithpublichealthramifications. Thus, it is important that the healthdepartment = sEOPbuild on these established capabilities.

UsetheTeamApproachtoPlanning

Theplanningcoordinatorbringsonlyonepointofviewtotheplan.Ifacoordinated emergencyresponsedependsonteamwork,planningthehealth -relatedportionof thateffortshoul dinvolvethestate'semergencyteam.Theteamapproachto planningworksbestforthesereasons:

- \$ The EOP is more likely to be used and followed if the responsible organizations have a sense of ownership (i.e., their views we reconsidered and incorporate d).
- \$ Moreknowledgeandexpertisearebroughttotheplanningeffort.
- \$ Closerprofessionalrelationshipsbetweenresponseandrecovery organizationsintheplanningprocessshouldtranslateintobettercoordination andteamworkinemergencies.

ChoosingTe amMembers

Theplanningteamshouldbedrawnfromvariousgroupsthathavearoleorstakein emergencyresponse. The list below is neither mandatory nor all -inclusive. The important thing is that health departments ensure that members on the planning team representacross -section of organizations involved in a state semergency prepared nessandresponse efforts.

PotentialPlanningTeamMembers

HealthDirector Governor=srepresentative Lawenforcementagencies Localhealthdepartments Dispatch/911 PublicInformationOfficer Hospitalstaff	EmergencyManagementDirector Mayors=representatives Fire/rescue/EMS MMRSpersonnel Hazardousmaterials teams Legalcounsel Managedcarerepresentatives
Clinicsandphysicians	Mentalhealthprofessionals
Medicalexaminer/Coroner	Socialserviceagencyrepresentatives
DepartmentofAgriculturestaff Pharmacist	EnvironmentalProtectionAgencystaff Volunteerorganizationrepresentatives
Veterinaryservices	Others

Potentialplanningteammembershavemanyday -to-dayr esponsibilities.Forthe teamtoworktogether,membersmustbeconvincedthatemergencyplanninghasa higherprioritythandailyissues,andthepeopletomakethatargumentareagency directors.Thesekeyofficialsalsodeterminewhichstaffmembersw illattend planningmeetingsandwhatprioritytheplanningeffortwillbegiven,soitis importanttosecuretheircommitmentearlyintheplanningprocess.

PlanningSteps

[DOJ/CDCPublicHealthPerformanceAssessment:1.2;6.1;6.2;8.2.6;8.2.7;8.2 .8)

The following are basic steps for developing and continually refining an emergency response plan.

 ConductResearch:Reviewthestatelaws,rules,regulations,executiveorders, andotherdocumentsthatmaybeco nsideredenablinglegislationaswellasany applicablefederalregulatoryrequirements.Reviewguidance,existingstate plans,andtheplansofjurisdictionswithinthestate.ReviewMutualAid Agreementswithneighboringstates,militaryinstallations, andprivatesector organizations.Finally,becomefamiliarwiththerelevantfederalplansthatmay beusedasabasisforprovidingassistance.

- 11. ConductaHazardAnalysis: *Hazardanalysisisthebasisforeffectiveand realisticemergencyplanninga ndhelpsaplanningteamdecidewhathazards meritspecialattention, whatactionsmustbeplannedfor, and what resources are likely to be needed. Comprehensive hazardanalysismerits its own document-length discussion; however, basic considerations of process, methods, and sources include the following:
 - \$ Identifyhazardstoknowwhatkindsofemergencieshaveoccurredor couldoccurinyourstate.Sourcesofhazardinformationwouldinclude CDC,FEMA,theNationalResponseCenter,theU.S.Departmentof Transportation,thestateandlocalhealthdepartments,andpoison centers.Formorelocalizedhazards,informationaboutthe10 -and50 mileEmergencyPlanningZonesaroundnuclearpowerplantsisavailable fromstateemergencymanagementagencies,and hazardousmaterials informationcanbeobtainedfromtheLocalEmergencyPlanning Committees.

Manypotentialsourcesofhazardinformationexistforhistorical investigation. Consultfederalorstatehazardanalysestoseewhetherthe historicaloccurren ceofthehazardistabulatedbyjurisdiction. Inaddition, interviewrepresentativesfromorganizationsontheplanningteamabout theirexperience. Checkdisasterrecordsfromthelocalchapterofthe American Red Cross, policeand firedepartments, an dother responder records. Research both statewide and local newspapers at the library and checkwith the statehistorical society and perhaps are a universities (e.g., departments of history, medicine, sociology).

Profilethehazardsandtheirpotentialc onsequences. The categories of information and the precision of the data dependence veral factors. One factor is the types of decisions the analysis is meant to support. For example, to decide that one hazard poses more of a threat than another may require only a qualitative estimate (e.g., "high, ""medium, ""low"), where as other is sues may require a more quantitative assessment. Another factor is the availability of information and time. It may be necessary to take along -term view of hazard analysis with each version building on the preceding analysis as part of a "research agenda" for the public healthresponse.

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^{*}BecausetheHazardAnalysismaycontainsensitiveinformation,statesshouldconsiderwhethertheir openrecordsstatutesauthorizewithholdingtheAnalysisfrompubli cdisclosure.

- \$ Developinformationoneachofthehazardsidentifiedforthestateandits jurisdictionalsubdivisions.Ofparticularinterestaretheh azard's frequency ofoccurrence;magnitude andintensity;location, ifthehazard isassociatedwithafacilityorlandscapefeature;spatialextent;duration; seasonalpattern;speedofonset;andavailabilityofwarning.
- \$ Developinformationonthepoten tialconsequencesofthehazard. Severaltypesofconsequencescanbeinvestigated;however,forhealth planningpurposes,theinvestigationcanbelimitedmainlytotheeffects onpeople(e.g.,totalaffected,numberdisplaced,probabledeaths,and illnessesorinjuries). The planning team can use both historical information and computer modeling to arrive at planning estimates.
- \$ Compareandprioritizeriskstodeterminewhichhazardsmeritspecial attention. Theplanningteammustconsiderthefrequen cyofthehazard andthelikelyorpotentialseverityofitsconsequencestodevelopasingle indicatorofthethreat. This consideration allows comparison and priority setting. Although a mathematical approach is possible, it is easier to manipulate qualitative ratings for different categories of information used in the ranking scheme.
- Thereissignificantdebateaboutthetypeofterrorismeventonwhich planningandresponsecommunitiesshouldfocustheirpreparedness efforts(e.g.,low -probabilityev entswithpotentiallycatastrophicresultsvs. higherprobability,localizedevents).CDCrecommendsfocusing,atleast initially,onmorelocalized terrorismeventsbecauseastateismorelikely toencounteralocalizedevent,andinitiallyplanningfor anoncatastrophic eventallowstheresponsecommunitiestocoordinateeffortswithout overwhelmingtheresponsesystem.
- \$ Onthebasisofthehazardassessment,createcrediblescenariosand estimateresourcerequirements.Becausetheplanshouldfocuso nnonroutinesituations,onlyscenariosthatresultinconsequencesabovea certainthresholdneedbeconsidered.

TheDepartmentofHealthandHumanServicessuggestedthatcitiesplantorespondtoaterroristattack thatpotentiallyaffects10%oftheirpopulation.Copingwiththislevelofcasualtieswouldtaxallaspectsof anemergencyresponsesy stemandwouldrequireplanningfortherapidaugmentationofacommunity =s assetsbystate,regional,andfederalassetswithoutcollapsingthelocalandstatehealth -caresystems. Statesmayconsiderusingthis10%figureaswell,unlesstheresultingc asualtieswilloverwhelmthe state=sabilitytorespondeffectively.

- Creatingscenariosallowsplannerstogroupresponseactionsaccording totheconsequencesoftheevent,irrespectiveoftheinitiatingeven t.For example,throughscenarios,theconsequencesofachemicalterrorism eventcanbecomparedwiththoseofahazardousmaterialsincident,or biologicalterrorismcanbecomparedwithanaturaldiseaseoutbreak. Throughthisprocess,plannerscangr ouprequiredresponseactionsinto categoriesbasedonthetypesandnumbersofcasualties.Thus,the emergencyresponseshouldnotbehazard -specificunlessthehazard responserequiresdemonstratedspecialactivitiesorcapabilities.Inthat case,you canplacehazard -specificinformationinanannexorappendix totheoverallEOP.
- 3. DeterminetheResourceBase:Agencyheadsandotherpotentialmembersof theplanningteamshouldknowwhatkindsofresourcestheybringtoemergency responseandreco very.Availableresourcesshouldbelistedandcomparedwith theresourcesneededtorespondeffectivelytotheemergency.Determiningthe resourcebasealsoshouldincludeaconsiderationofwhichfacilitiesarevitalto emergencyoperationsandhowthe ymightbeaffectedbyidentifiedhazards. Problemsthatcannotbemitigatedshouldbeaddressedintheplan.

Ultimately, identified shortages in resources meant hat health departments may have to negotiate agreements with private suppliers or other juri sdictions. However, unless those agreements can be negotiated concurrently with the planning process, planning should proceed on the basis of existing resources.

4. NoteSpecialFacetsofthePlanningEnvironment:Theplanningteamshould notegeographic andtopographicfeaturesthatmayaffectoperations,for example,dependenceonasinglemaintransportationarteryintoandoutofa heavilypopulatedportionofthestate.Plannersalsoshouldidentifyspecial needsgroups(non -Englishspeakers,theag ed,andthedisabled)andwhere

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^zChapter6ofSLG101containsguidanceregardinghazard -uniqueplanningconsiderations.SLG101 alsocontainseightattachments; eachisdedicatedtoaspecifichazard.(AttachmentG coversterrorism.)

Appendix I: Basic Emergency Preparedness Planning

theyareconcentrated. Finally, the planning teams hould be alert to demographic and other trends in the state that affect planning assumptions.

PlanDevelopment

Researchleadstoawrittenplanthroughstepssimilarto thefollowing:

- \$ Developaroughdraftofthebasicplanandanynecessaryhazard -specific appendicesforconsiderationbytheplanningteam.
- Developagendasandinvitationlistsforthefirstcycleofplanningmeetings; perhaps,deliverinvitationsinpe rsonandconductpreliminaryinterviewswith keyofficials.
- \$ Briefthestatehealthofficer;perhaps,invitehimorhertotheinitialmeeting asakeynotespeaker.
- \$ Conductapresentationmeeting,establishcommitteesfordevelopingpartsof theplan,ap pointcommitteechairs,andscheduleafollow -upmeeting.
- \$ Workwithcommitteesonsuccessivedrafts.
- \$ Preparenecessarygraphics(e.g.,mapsandorganizationalcharts).
- \$ Produceafinaldraftandcirculatethedrafttotheplanningteamforreview andc omment.
- \$ Holdameetingtoincorporatefinalchanges, discussanimplementation strategyandnecessary distribution, and obtaininformal commitments to provide information that could necessitate revision of the plan.
- \$ Obtainconcurrencefromorganization swithidentifiedresponsibilitiesfor implementingtheplan.

- \$ Presenttheplantoelectedofficialsandobtainofficialconcurrence.
- aa

- \$ Printanddistributetheplan.
- \$ Maintainarecordoftheorganizationsandpeoplewhoreceiveacopyofthe plan.

OngoingEfforts

Completingaresponseplanisnotanendinitself. Numerous activities should follow development of the plantoen sure that it remains current, useful, and appropriate.

ValidationandEvaluation

Checkthewrittenplanforitsconformi tytoapplicableregulatoryrequirements andthestandardsoffederalorstateagencies, asappropriate. Usetabletop, functional, and full -scaleemergencymanagement exercises to evaluate newor revised response plans. Exercises offer the best way, sho rto femergencies, to determine whether the planis understood, that it "works," and that it would actually be used in an emergency.

AnnualAssessmentandReview

[DOJ/CDCPublicHealthPerformanceAssessment:9.2]

Anassessmentprocesscanhelpaplanni ngteamidentify,illuminate,and correctproblemswiththehealthplanbecausetheprocesscapturesinformation fromexercises,post -responsecritiques,self -evaluation,audits,and administrativereviewsthatmayindicatewheredeficienciesexist. Thep rocess involvesatleastannualreviewsbytheplanningteamtodiscussproblemsandto considerandassignresponsibilityforremediestocorrectnoteddeficiencies. Theassessmentmayinvolverevisingplanningassumptionsandoperational concepts,chang ingorganizationaltasks,ormodifyingorganizational implementinginstructions(e.g.,SOPs). Italsomayinvolverefreshertrainingby anorganization=spersonneloncarryingouttheirresponsibilities.

^{aa}ltisimperativethattheplanningteammemberskeepallrepresentedorganizations,aswellaselected officials,fullyinformedregardingplanningprogressthroughouttheprocess.Continuallyupdatingkey representativesofeachre sponsibleorganizationwillminimizedifficultieswhenfinalconcurrenceis sought.

ImplementingDocuments

Theassessmentandreview phaseisanopportunetimetoensurethateach responsibleorganizationhasdevelopedtheSOPsnecessarytoaccomplish assignedresponsibilities.TheEOPdoesnotanticipateeverydetailofthetasks itdescribes,butthedetailsareimportanttoimpleme ntation.

Maintenance

Plansshouldbeflexiblebecauseproblemsemerge, situations change, gaps become apparent, and federal or state requirements are altered. Thus, the EOP must be modified, as necessary, to remain useful and current.

TrainingandEx ercises

[DOJ/CDCPublicHealthPerformanceAssessment:8.1;8.2;9.1]

Developingthebestpossibleemergencyplanwillnotguaranteeaneffective responseunlessthoserespondingknowwhatisintheplanandactaccordingly. Initialandfollow -uptraini ngandexercisesarenecessarytoensurethattheplan willbeimplementedasexpected.

Conductingeffectivetrainingandexercisescanidentifywheredeficienciesexist intheplan. In addition, review and evaluation of actual responses, large -or small-scale, help demonstrate whether the response to amajor terrorism incident is consistent with the plan. Demonstrate dinconsistencies between the plan and are sponse will require revisions either to the plan or to future responses. Systematic plan review should occur even when deficiencies are not apparent.

FillingIdentifiedResourceGaps

Althoughtheplanmustbebasedonexistingassets, planners most likely will identify supplemental needs through the planning process. Some of these needs may be funded by federal agencies that have been granted congressional responsibility for providing assets to state and local communities to improve their ability to respond to terrorism. In addition to CDC, some of the agencies providing terrorism prepared ne segrant sinclude FEMA, HHS, OJP, and EPA.

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Muchoftheassessmentinformationrequiredbytheseagenciesforobtaining terrorismpreparednessgrantsissimilar. Thus, ratherthantreating grants from these agencies separately, integrate all federal gran tsources available to the state into the planning process and focus on the most critical identified gaps. Integrating all federal assets into the planning process will help prioritize identified needs; maximize the efficient use of available funds; ease integration of the new asset into the existing plan, if revision of the plan is not necessary; and promoter evision of the plan, where necessary, to support integrating the new asset into the emergency response framework.

CoordinationWithOtherAgencies

[DOJ/CDCPublicHealthPerformanceAssessment:4.1]

Avarietyoffederal, state, and local agencies and organization shave information or expertise that will assist the health department indeveloping its terrorism response plan. Moreover, many of these agencies will participate in the response effort. Thus, coordination among these agencies will undoubtedly improve the overall preparedness and response efforts.

StateEmergencyResponseCommission/LocalEmergencyPlanning Committees

Theprevioussecti ondiscussedtheimportanceofreviewingavailableguidanceand existingplans. AgoodplacetostartthatsearchiswithyourStateEmergency ResponseCommission(SERC) and itsLocalEmergencyPlanningCommittees (LEPCs). The concept for these entities was established by Titlelllofthe SuperfundAmendments and Reauthorization Actof 1986 (SARA), also known as the Emergency Planning and Community Right -to-Know Act (23,24).

SARATitleIIIrequiresthegovernorofeachstatetoestablishaSERC.Amon otherresponsibilities,thiscommissionestablishesplanningdistrictswithinthestate andappointsLEPCswithinthosedistricts.TheLEPCsdevelophazardous chemical-relatedemergencyplansincoordinationwithastate=schemicalfacilities, whichare subjecttoARight -to-Know@requirements(i.e.,thefacilitiespossess chemicalslistedontheEPA=slistofextremelyhazardoussubstancesinamounts thatexceedidentifiedthresholdguantities).

Activities under taken by LEPCs should be fully integrat ed, along with the public health plan, into the community = sover all emergency response plan. Moreover,

becausethechemicalplansweredevelopedpursuanttoguidancesimilartothat containedinthisdocument,theLEPCsalreadymayhavecompletedsomeof workrequiredfordevelopingthehealthEOP/terrorismresponseplan.

The Federal Bureau of Investigation and Local Law Enforcement

Throughoutthisdocument, the planner has been instructed to focus on the similarities between are sponse to a terror is mincident and the day -to-day or emergency activities of the public health system, instituting unique response actions only when necessary. However, one are at hat clearly is unique in a terror is mevent is the incident scene, which is also acrimes cene.

TheFBI=sfirstpriorityisthesameasthepublichealthsystem=s:protectinglives. Therefore, the actions and responsibilities of lawen forcement and the publichealth systems hould not conflict. However, lawen forcement must secure the crimescene and preserve evidence. Therefore, the entire emergency response community must understand the role of lawen forcement agencies and coordinate response activities, such as search and rescue, so that the scene is not disturbed, the reby making evidence collection and protection more difficult.

JointTerrorismTaskForce

ThefirstJointTerrorismTaskForce(JTTF)wasdevelopedinNewYorkCityin 1980.GoalsoftheJTTFincludeincreasingtheeffectivenessandproductivityof scarcehumanandlogisticalr esources,avoidingduplicationofeffort,andexpanding cooperationandcoordinationamongfederal,state,andlocallawenforcement agencies.

Currently, JTTFs exist in these 30 U.S. cities: Albuquerque, Atlanta; Boston; Charlotte; Chicago; Dallas; Den ver; Detroit; El Paso; Houston; Indianapolis; Los Angeles; Miami; Minneapolis; New Orleans; New York City; Newark; Oklahoma City; Philadelphia; Phoenix; Pittsburgh; Portland, Oregon; Sacramento; Salt Lake City; San Antonio; San Diego; San Francisco; Seattl e; Tampa; and Washington, DC. Task Forces also have been proposed for the following cities: Baltimore; Cleveland; Jackson ville; Las Vegas; Milwaukee; and San Juan. Depending on its location, the

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bb GuidancefordevelopingLocalEmergencyPlanningCommitteePlansiscontainedinU.S. EnvironmentalProtectionAgency =sHazardousMaterialsEmergencyPlanningGuide,Was hington,DC: NRT,1987;NRT -1.

Appendix I: Basic Emergency Preparedness Planning

JTTFmayfocusondomesticterrorism,internationalterro rism,orboth.

The JTTF comprises representatives of the FBI, other federal agencies (U.S. Marshals Service, the Department of State, the Immigration and Naturalization Service, the Secret Service, and the Bureau of Alcohol, Tobacco, and Firearms), and state and local lawer forcement. Members gather intelligence about domestic or international terroristor ganizations and conductinvestigations into planned terrorism acts; prevent such acts, if possible; or investigate the facts and collect evidence if a errorism incident occurs within their jurisdiction. In light of its intelligence gathering responsibilities, your state JTTF, if one exists, is a good starting point for developing are a listic threat assessment.

ThePlan

Chapters3through5ofthisPla nningGuidanceprovidechecklistsandguidancefor developingtechnicalprovisionswithintheterrorismresponseplan. Thissection and the checklist at the end of this appendix refer to generic or Aboiler plate@plan provisions. Many of the seprovisions should be contained already in a state = sEOP. If the planinc ludes the seprovisions, they should be reviewed to ensure that they include appropriate public health - related information. If not included, the state should consider including them.

StatementofPurpose

Eachplanshouldincludeasectionoutliningthepurposeoftheplantoaidin interpretingtherestofthedocument. The Statement of Purpose can be succinct, expressing the purpose in broad terms. Careshould be taken, however, to ensure that there is no conflict between the Statement of Purpose and the body of the plan.

LegalAuthorities

Theplanshouldciteallappropriatefederal, state, or local publichealth statutes, or dinances, and regulations authorizing the preparation of med ical and health services disasterplans. The planshould also citethelegal authorities for the following:

\$ Undertakinganyactionsnecessarytoprotectpublichealthandsafety.

Appendix I: Basic Emergency Preparedness Planning

- \$ Designatingthenameoftheagencyortitlesofofficialsresponsiblefo managingmedicalorhealthservicesduringemergencyoperations.
- \$ Enforcingquarantineofinfectedindividuals, when necessary.
- \$ Waivingthelegalliabilityof,orprovidingimmunityto,emergencyworkers.
- \$ Providingdisasterservicesbycoroners,medi calexaminers,ormortuary workers.
- \$ Providingforemergencyprocurementprocedures and for access to, use of, and reimbursement for private -sector resources in an emergency.

PlanningAssumptions

Theplanshouldcontainasectionoutlininganyassumption sthatarethebasisfor theplan. It also may include limitations that could degrade health and medical operations. Assumptions addressed might include the following:

- \$ Thestatehealthplanappliesprimarilytolarge -scaleemergencyanddisaster eventsthatwouldcausecasualtiesorfatalitiessufficienttooverwhelmlocal medical,health,andmortuaryservicescapabilities,thusrequiringmaximum coordinationandefficientuseoftheseresources.
- \$ Publicandprivatehealthandmedicalresourceslocated intheaffected jurisdictionwillbeavailableforuseduringdisastersituations. Manyofthese resources, including human resources, could be affected by the event.
- \$ Itmaybenecessarytorelocatehospitalfacilitiesunderaustereconditionsto contingencyfieldhospitalsortopermanentortemporarybuildingsthatcan adequatelyprotectpatientsandmedicalstafffromtheeffectsoftheevent.
- \$ Volunteerswillhelpperformsomeessentialtasks;theireffortsmustbe anticipatedandcoordinated.

Key PublicHealthFunctions

Theplanshouldassignresponsibilityforalltenessentialservicesaswellasfor otheridentifiedkeyemergencypublichealthfunctions. The descriptions of each keyfunctionshouldincludeaclear, conciselistofallagencies that have primary and support responsibilities.

EmergencyPublicHealthManager

Theplanshouldidentify, by title, the specific personand alternates authorized to manage the public healthemergency response. It also should include the criteria by which the alternates will assume the duties of the person primarily responsible for managing the response. The planshould include 24 - hour contact numbers for each authorized emergency responsemanager.

ThreatScenarios

Theplanshoulddescribebrieflyth emajorscenariosthatformthebasisofthethreat assessmentandpublichealthplanning.Intheeventthatthescenariospredict similarcasualties,thesescenariosshouldbegroupedintocategories,andauniform responsestrategyshouldbedeveloped.

MemorandaofAgreement

Thissectionoftheplanshouldreferenceallexistinginteragencyorinterjurisdictional agreementsconcerningthepublichealthemergencyresponse.Italsoshould describethemechanismsforactivatingtheprovisionsoftheag reementsandbriefly explainthetypesofeventsthatwilltriggeractivationofanyagreements.Finally,if limitationsonactivationexist,identifytheselimitationsaswell.

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^{cc}Forexample,atypicalactivationlimitationauthorizesapartytoaMutualAidAgreementtoabstainfrom providingagreeduponassetsinanemergency,ifprovidingtheassetswouldjeopardizetheparty =sability toprotect itsowncommunity.

Abbreviations and Definitions

Keepabbreviationstoaminimum.Whenuse d,theyshouldbeexplainedinthe bodyoftheplanorinanappendix.Thedocumentalsoshoulddefinekeyor unfamiliarterms.Adefinitionsectionespeciallyisimportantwhenpartieswith responsibilityundertheplanusetermsthathavedifferentmea ningsintheir respectiveday -to-dayoperations.

PlanDistribution, Record -of-Receipt, and Updates

Theplanshouldincludeproceduresformaintainingarecordofdistributionthat showsthenameandaddressofeachrecipientagency,thenumberofcopies provided,andthedateoftransmittal. Theplanalsocanincludearecord -of-receipt formthat can be signed and returned by each party receiving a copy of the plan.

Maintaininganaccuraterecordofreceiptisimperativetoensuringthateachversion oftheplanincirculationisthemostrecent. Thus, the distribution tracking system should be tied to asystem for distributing changes to the plan. This latter system also can include record -of-receipt forms that are mailed with the change pages and returned to the agency distributing the revisions once the plan is revised.

Theplanalsoshouldincludeapageforrecordingallchangesmadetotheplanover time. This recordshould include aplacefor the appropriate signatories to confirm adoption of the changes.

Theplanshouldrequireroutineannualreviewandproceduresfordeterminingwhen theplanshouldbereviewedmorefrequentlyasaresultofchangingcircumstances. Thissectionoftheplanalsoshoulddescribethemethodsthatwillbeus edto updatetheplananddetailthecriteriathatwillbeusedtochangetheplan.

SignatureBlock

Theplanshouldincludeasectionforapprovalsignatures. Determine whether any signing jurisdiction requires a notary seal or other attestation to value and the document.

Appendix I: Basic Emergency Preparedness Planning

		BasicEmergencyPreparednessPlanningChecklist	Yes	No
1.	Ha	veyououtlinedthepurposeoftheplan?		
2.		veyoucitedappropriatefederal,state,andlocalpublichealthauthorizing jislation,ordinances,andregulati ons?		
3.	Ha	veyououtlinedanyassumptionsonwhichtheplanisbased?		
4.		veyouassignedresponsibilityforthetenessentialservicesandotheridentified yemergencypublichealthfunctions?		
5.	he	veyouidentifiedspecificindivi dualsandalternatesauthorizedtodirectthepublic althemergencyresponse?		
6.	Ha	veyoureferencedthemajorscenariosorscenariocategories?		
7.	Ha	veyoureferencedexistinginteragencyorinter -jurisdictionalagreements?		
8.	Ha	veyouexplainedallabbreviationsanddefinedkeyorunfamiliarterms?		
9.		veyouincludedproceduresformaintainingarecordofplandistributionanda cord-of-receiptform?		
10.	Ha	veyouprovidedupdateguidanceandarecord -of-changepage?		
11.	Ha	veyouincludedasignatureblock?		
12.	Do	estheplancontainthefollowingprotocols?		
	a. b.	Protocolsforconveningpolice,fire,EMS,localhospitals,publichealthofficials, membersofthelocalemergencyplanningcom mittee,EOCs,andotherrelevant partiesonaperiodicbasistoreviewthecontentoftheplan. Protocolfordesignating,bytitle,thepublichealthpersonnel(andalternates) responsibleforstaffingthecentralizedEOCwhenactivated		
	C.	Protocolforcoordinatingpublichealthresponsibilitieswithlawenforcement responsibilities.		
	d.	Protocolsfornotifyinginteragency, media, and public of a nemergency.		
	e.	Protocolforinformingthepublicofpopulationpreventionmeasureswhich include:hazardstoexpect,precautionstotake,requirementsforevacuationor shelter-in-place.		
	f.	Protocolforcredibilitythreatassessmentprocess(incoordinationwiththeFBI).		
	g.	Protocolformutualaidagreementsandinteragencycoordination.		
	h.	Protocolforimplementinganemergencyepidemiologicinvestigationforhuman andanimalexposures.		
	i.	Protocolforimplementingevacuationandmasscasualtytransportation.		
	j.	Protocolforinitiatingthepublichealthresponsewhenadevice isfoundthat maycontainabiologicalorchemicalagent.		
	k.	Protocolformethodsforcollecting,handling,decontaminating,transporting, preserving,andstoringbiologicalandchemicalevidence,includingmaintaining thechainofcustody,referral tostatepublichealthlaboratory,andreferralto federallaboratory.		
	k.	Protocolforinterviewingpotentiallycontaminatedorinfectiousvictims.		
	m.	Protocolforcriticalincidentstresscounselingforvictimsorresponsepersonnel, includingpublichealthandmedicalprofessionals.		
	n.	Protocolforprotectingcare -providersandvictimsfromsecondaryexposures.		

Appendix I: Basic Emergency Preparedness Planning

	BasicEmergencyPreparednessPlanningChecklist	Yes	No
0.	Protocolfordecontaminatingmasscasualties(pre -hospital)andpatientsupon theirarrivalatthetreatmentfacili ty.		
p.	Protocolforensuringthatcontaminationoftreatmentfacilities does not occur when patients are evaluated or treated.		
q.	Protocolforinstitutingmassisolationwithinahealthfacility.		
r.	Protocolforincorporatingstæandfederalassetsintothelocalresponse efforts.		
S.	Protocolsforrequestingstateorfederal(civilianormilitary)pharmaceutical stockpiles.		
t.	Protocolforthereceipt,security,anddistributionofstockpileassets.		
u.	Potocolforinstitutingmassvaccinationsormedicationdistributiontofirst respondersandtomedical/healthcareproviders.		
V.	Protocolforrespondingtomassmortuaryneeds.		
W.	Protocolforidentifyingandobtainingmentalhealthresourc esthatwilltreatboth respondersandvictims.		
х.	Protocolforbaselineandpost -incidentmedicalscreeningforallpersonnel involved.		

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AppendixII

NATIONALPHARMACEUTICALSTOCKPILEPROGRAM

Areleaseofselectedbiologicalorchemicalagentstargetingthe U.S.civilian population will require rapidaccess to large quantities of pharmaceutical sand medical supplies. Such quantities may not be readily available unless special stock piles ar ecreated. No one can anticipate exactly where a terrorist will strike, and few stateor local governments have the resource stocreate sufficient stock piles on their own. Therefore, an ational stock pile was created as a resource for all.

TheNPSisan ationalrepositoryofantibiotics, chemical antidotes, antitoxins, life - support medications, IV administration and airway maintenance supplies, and medical/surgicalitems. The NPS Program is designed to supplementandre - supply state and local publiche alt hagencies in the event of a biological or chemical terrorism incidentary where, at any time within the United States or its territories.

ThedecisiontodeployNPSassetsmaybebasedonevidenceshowingtheovert releaseofanagentorcredibleintellige nceinformation. However, it is more likely that subtleindicators, such as unusual morbidity and mortality identified through the U.S. diseaseoutbreaksurveillanceandepidemiologynetwork, willaler the althofficial stothe possibility(andconfirmatio n)ofabiologicalorchemicalterrorismincident. Toreceive NPSassets, the affected state can request the deployment of the NPS directly from the DirectorofCDC.Oncerequested,theDirectorofCDChastheauthority,in consultationwiththeSurgeon General, the Secretary of the Department of Health and HumanServices, the Federal Emergency Management Agency, and the Federal BureauofInvestigation,todeploytheNPS.TheNPSissegregatedintoseveral packages. First, there are immediate response A PushPackages, @whicharecaches ofpharmaceuticals, antidotes, and medical supplies designed to address a variety of biologicalorchemicalagents. These Push Packages are positioned in secure regional warehousesreadyfordeliveryanywhereinthecontin entalUnitedStateswithin12 hoursafterafederaldecisiontodeploy.CDCalsoplanstoreachsitesbeyondthe continentalU.S.in12hours, although delivery may take longer in some circumstances.

Iftheincidentrequiresadditionalpharmaceuticals ormedicalsupplies,follow -up VendorManagedInventory(VMI)supplieswillbeshippedtoarrivewithin24to36 - hours.Thefollow -onVMIpackagescanbetailoredtoprovidepharmaceuticals, supplies,and/orproductsspecifictothesuspectedorconfirme dagentorcombination ofagents.

DuetothedelaysbetweentheonsetoftheeventandreceiptofNPSassets,theNPS isnotafirstresponsetool.However,stateandlocalfirstrespondersandhealth officialscanusetheNPStobolstertheirresponse toabiologicalorchemicalterrorism

attack, thereby increasing their capacity to more rapidly mitigate the results of this type of terrorism.

DeterminingandMaintainingNPSAssets

CDCpartnerswithintelligenceexpertswhoevaluatechemicalandb iologicalterrorism toensurethatthecompositionoftheNPSreflectscurrentbiologicalandchemical threats.CDCanditsfederalpartnersusethisinformationtoprioritizethepotential biologicalandchemicalagentsandtodetermineNPScontents.CD Censuresthatall medicalmaterielusedinnormalhospitaloperationswillberotatedandkeptwithin potencyshelflifelimits.

TransferofNPSAssetstoStateand/orLocalAuthorities

ThePushPackagesareconfiguredtoallowtheirimmediateloading ontoeithertrucks orcommercialcargoaircraftforthemostrapidtransportationpossible.CDCwill coordinatewithstateandlocalofficialswhiletheNPSisenroute,sothatstockpile assetscanbeefficientlyreceivedanddistributeduponarrivala tthesite.

CDCwilltransferresponsibilityforNPSmaterieltotheappropriatestateorlocal authoritiesonceitarrivesattheairfield.Stateandlocalauthoritiesmustbepreparedto repackageandlabelbulkmedicinesandotherNPSmaterielaccordi ngtoestablished SOPs.CDC=stechnicaladvisorswillaccompanytheNPStoassistandadvisestateor localofficialsinputtingtheNPSassetstoprompt,effectiveuse.

TrainingandEducation

The NPS Program is charged with leading an ation wide prepare dnesstrainingand educationprogramforstateandlocalhealth -careproviders, first responders, and state and local governments. This training not only explains the NPS mission and operations butitalertsstateandlocalemergencyresponseofficialsto theimportantissuesthey mustplanfortoreceive, secure, and distribute NPS assets. To conduct this outreach andtraining, NPSProgramstaffisworking currently with HHS agencies, Regional EmergencyResponseCoordinatorsatalltenU.S.PublicHealth Serviceregional offices, as well as stated epartments of health, state emergency management agencies, the Metropolitan Medical Response System, regional offices of the FBI and otheragencies within the Department of Justice, FEMA, the Department of Veter ans= Affairs, and the Department of Defense.

AppendixII:NationalPharma ceuticalStockpileProgram

NPSProgramstaffhasestablishedguidancefordevelopingstockpile -relatedSOPs. Thisguidanceincludesinformationonhowstatesshouldidentifyproceduresfor accepting,securing,repackaging,anddistr ibutingNPSassets.TheNPSguidancewas notincludedinthisPlanningGuidanceduetothesensitivenatureofsomeofthe informationinthatdocument.However,stateandlocalpublichealthplannersmay obtainacopybycontactingtheNPSProgramasfo llows:

NationalPharmaceuticalStockpileProgram 4770BufordHighwayNE
MailstopF -23
Atlanta,GA30341 -3724
(770)488 -7516

TorequestNPSassetsinanemergencysituation,contacttheNPSthroughCDC=s emergencyresponsenumber,(770)488 -7100.

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